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# **BIBLIOGRAPHY OF AGRICULTURE**

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ORYX PRESS

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Magnetic tapes supplied by the library are computer processed, using several vocabulary control mechanisms. The resulting indexes provide access to the literature in considerably less time than would be required by traditional indexing techniques.

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# IMPORTANT NOTICE

## TO ALL BIBLIOGRAPHY OF AGRICULTURE SUBSCRIBERS

This is to notify you that THE ORYX PRESS is now publishing the "Bibliography of Agriculture," starting with this issue. *There will be no interruption of service in the fulfillment of your subscription*, but we ask that you complete and return the renewal form on the reverse side of this notice as soon as possible. As before, the publication will be produced from data provided by the National Agricultural Library of the U.S. Department of Agriculture. *The cost per annual subscription has been lowered to \$85.00, plus postage (\$5.25 U.S.; all others, \$6.50).*

The contents of the "Bibliography of Agriculture" have been expanded starting with this issue. With the cooperation of Macmillan Information and the National Agricultural Library, we have been able to identify the various sections of the *B of A* which were in the original publication issued by the U.S. Department of Agriculture prior to 1970, but which were dropped by Macmillan. Several of these are now included. There are separate sections of USDA, FAO, Experiment Station, and Extension Service publications, with full bibliographic data; there is a list of Translated Publications; and there is a list of Journal Titles indexed in each issue of the *B of A*.

In addition, no titles have been truncated, and each personal or corporate author of each publication has been included in each main entry citation.

*The Subject Index will be issued monthly as a separate publication, at separate cost, and will be based on an expanded Subject Authority File.* Each entry will now include the complete title of each journal article cited. Oryx Press will discontinue the Macmillan practice of allowing each title only one line, which has resulted in title truncation of both the end and the beginning of almost every title. In addition, the Subject Authority File will be published under the title "Bibliography of Agriculture Thesaurus" as a separate hardbound publication.

Those subscribers to the "Bibliography of Agriculture Annual Subject/Author Cumulation" will receive their 1974 copies as ordered, from Macmillan Information; starting with the 1975 edition, however, Oryx Press will be the publisher of the Cumulations as well.

On the reverse side of this notice is your renewal order form. Please return this form to us as soon as possible, indicating the exact delivery address.

If you have any questions concerning your subscription, please contact Oryx Press directly. It is our hope that the new *B of A* publications will provide the agricultural community with all the information it requires, in the form in which it is needed. Toward that aim, we ask that your reference librarian complete and return the User Questionnaire which appears on the next page for evaluation as soon as possible.

# BIBLIOGRAPHY OF AGRICULTURE

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- ☐ Please increase or decrease the number of subscriptions which I am now receiving. I wish to receive \_\_\_\_\_ subscriptions, starting with the January 1975 issue.
- ☐ I wish to order \_\_\_\_\_ subscriptions to the expanded monthly BIBLIOGRAPHY OF AGRICULTURE SUBJECT INDEX, which will be published at the annual subscription cost of \$85.00, plus postage (\$5.25 U.S. and Canada; all others \$6.50).
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# USER QUESTIONNAIRE FOR REFERENCE LIBRARIANS

As explained in the notice on the preceding page, the "Bibliography of Agriculture" is now published by The Oryx Press. Because of the changes made in the publication, we would appreciate your completing and returning the User Questionnaire to us for evaluation.

1. The Main Entry Section now contains each personal and/or corporate author, and is no longer truncating titles. Does this additional information make utilization of the citations more effective? \_\_\_\_\_

2. Accession numbers are no longer being assigned to duplicate entries. Are you in agreement with this change in policy? \_\_\_\_\_

3. We have added five new Main Entry Sub-Sections. Please indicate if the addition of these sections make the *B of A* more useful to you.

USDA Publications \_\_\_\_\_

State Agricultural Experiment Station Publications \_\_\_\_\_

State Agricultural Extension Service Publications \_\_\_\_\_

FAO Publications \_\_\_\_\_

Translated Publications \_\_\_\_\_

4. Would you like to see a separate section of cataloging records (books, new serials, and other materials) added to the "Bibliography of Agriculture" even though these materials are covered by the National Agricultural Library Catalog which is published by Rowman and Littlefield. Please include the reasons for your answer.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. We have added a list of the Journal Title Abbreviations Cited in each issue of the *B of A*. Is it of any value to you? \_\_\_\_\_ Would it be of any additional value if it included the volume and issue number of the journal cited? \_\_\_\_\_

6. We are now publishing the Subject Index to the "Bibliography of Agriculture" as a separate monthly publication, at a separate subscription price. We would like your comments on this publishing decision. Would you rather see the two *B of A* publications combined at an annual subscription price of \$170.00 plus postage, or issued as two separate publications of \$85.00 each, plus postage. Please give the reasons for your answers.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



7. The format of the entries in the Subject Index to the "Bibliography of Agriculture" has been changed. Complete titles are now given under each control word. No titles are being truncated, and the titles appear in alphabetical order under each control word. This change will result in many more pages of Subject Index entries than before. Are you in agreement with these changes? \_\_\_\_\_ Please give your reasons for answering yes or no.

8. Would you like to see any other changes made in the "Bibliography of Agriculture" either in coverage or format? Please give your reasons for each suggestion.

Signed: \_\_\_\_\_ Title: \_\_\_\_\_

Library: \_\_\_\_\_

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Thank you for your help.

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# BIBLIOGRAPHY OF AGRICULTURE

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\*These categories are infrequently used

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# INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

## CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into nine sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, and a personal author index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

## MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

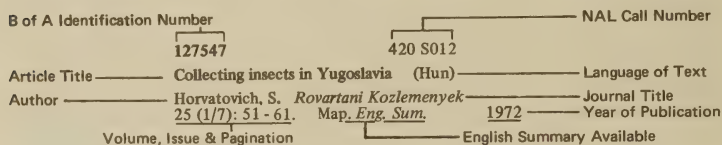
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



## MAIN ENTRY SUB-SECTIONS

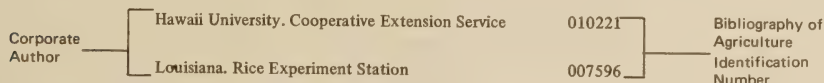
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications; State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries appear in The Main Entry Section as well as in the sub-sections.

## GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

## CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



## AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



## AVAILABILITY OF REFERENCES CITED

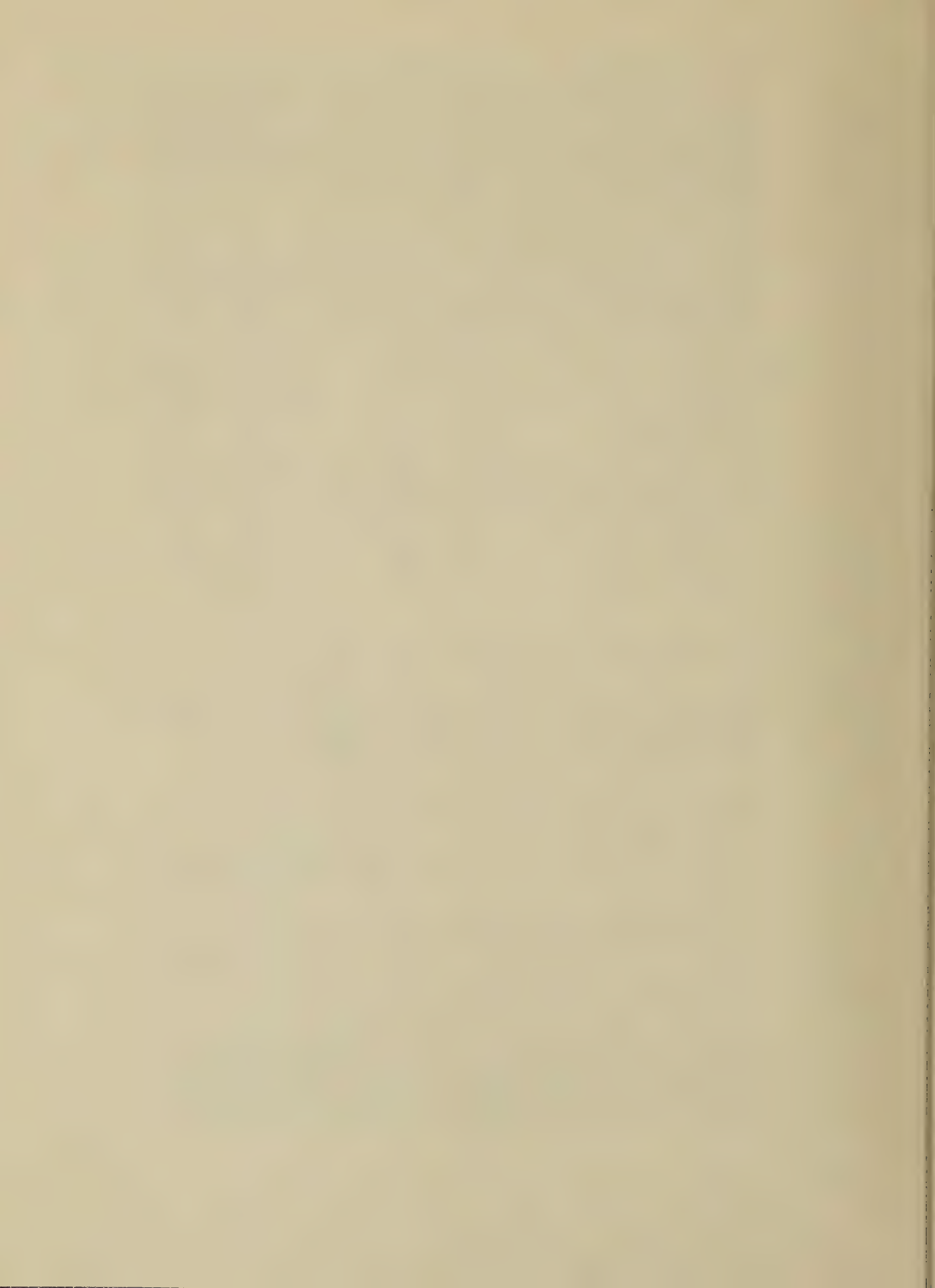
Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

- |                       |  |
|-----------------------|--|
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# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

A Coop Ext Programs Univ Wis  
A E Ext Dep Agric Econ N Y State Coll  
Agric Contract Coll State Univ Cornell  
Univ  
A E R S Dep Agric Econ Rural Sociol  
Agric Exp Stn Pa State U  
Abelle Fr Apicul  
Abelles & Fleurs  
Abh Senckenb Naturforsch Ges  
Acad Agric Fr C R Seances  
Acta Agrar Silv, Ser Zootech  
Acta Bot  
Acta Bot Croat  
Acta Bot Neerl  
Acta Chem Scand Ser B Org Chem  
Biochem  
Acta Hydrobiol  
Acta Palaeobot  
Acta Physiol Scand  
Acta Phytotaxon Barc  
Acta Univ Agric, Fac Silvica  
Acta Virol  
Acta Vitaminol Enzymol  
Acta Zool (Budap)  
Actual Agric  
ADAS Q Rev (Agric Dev Advis Serv)  
Adv Reprod Physiol  
Advise Leaf Minist Agric Fish Food  
(Edinb)  
AE Dep Agric Econ Rural Sociol  
Clemson Univ  
AERR Dep Agric Econ Agric Exp Stn  
Univ Ill Urbana Champaign  
Afriñad  
Ag Econ Rep Dep Agric Econ Fla Agric  
Exp Stn Inst Food Agric Sci Univ Fla  
Gainesville  
AGR Ky Univ Dep Agron  
Agric Agroid J  
Agric Bull Univ Alberta  
Agric Comm Ind PROSI (Publ Relat  
Off Sugar Ind)  
Agric Econ Misc Rep N D State Univ  
Dep Agric Econ  
Agric Econ Rep Dep Agric Econ Mich  
State Univ  
Agric Econ Stat Ser N D State Univ Dep  
Agric Econ  
Agric Elev Morbihan  
Agric Eng (St Joseph, Mich)  
Agric Exp Stn Res Rep N M State Univ  
Agric Handb U S Dep Agric  
Agric Hist  
Agric Hortie  
Agric Inf Bull U S Dep Agric  
Agric North Irel  
Agric Pak  
Agric Prog (Shrewsbury)  
Agric Situation (Washington)  
Agrichem Age  
Agricole (Marches Agric)  
Agricoltura (Madr)  
Agricoltura (Paris)  
Agri-Fieldman  
Agro Sur  
Agroanimalia  
Agrochemia (Bratisl)  
Agron Lusit  
Agron Mocamb  
Agronomia (Caracas)  
Agronomia (Monterrey)  
Agronomy

Agroplantae  
Agroservice  
Ala For Prod  
Algodon Mex  
Aliso  
Allg Dtsch Imkerztg  
Allg Forstz  
Allg Forstztg  
Am Bee J  
Am Dairy Rev  
Am J Anat  
Am J Bot  
Am J Clin Nutr  
Am J Enol Vitic  
Am J Physiol  
Am J Trop Med Hyg  
Am Mus Novit  
Am Nat  
Am Nurserym  
Am Veg Grow  
Am Zool  
Amis Roses  
Anal Chim Acta  
Andhra Agric J  
Ann Agric Fenn  
Ann Agron  
Ann Biol Anim Biochim Biophys  
Ann Bot  
Ann Inst Sper Valorizzazione Technol  
Prod Agric (Milano)  
Ann Med Vet  
Ann Mo Bot Gard  
Ann N Y Acad Sci  
Ann Nutr Aliment  
Ann Phytopathol  
Ann Sci Nat Bot Biol Veg  
Ann Soc Entomol Fr  
Ann Tech Agric  
Ann Trop Med Parasitol  
Ann Zool Fenn  
Ann Zool Pol Acad Nauk Inst Zool  
Antimicrob Agents Chemother  
Apic Mod  
Appl Biochem Microbiol  
Appl Entomol Zool  
Appl Microbiol  
Arbor News (Columbus)  
Arch Biochem Biophys  
Arch Latinoam Nutr  
Arch Lebensm Hyg  
Arch Mikrobiol  
Arch Zootech  
Arid Lands Resour Inf Pap  
Arkady Rev  
Arkansas Farm Res  
ARS-NC Agric Res Serv U S Dep Agric  
ARS-ne U S Agric Res Serv Northeast  
Reg  
ARS-S U S Agric Res Serv South Reg  
ARS-W Agric Res Serv U S Dep Agric  
Artha Vijnana  
Atmos Environ  
Atual Vet  
Aust Beekeep  
Aust For Ind J  
Aust J Agric Econ  
Aust Sugar Year Book  
Aust Vet J  
Avian Pathol  
Avid Inc  
B Agric Exp Stn Max C Fleischmann  
Coll Agric Univ Nev Reno

Baromfiipar  
Baromfitenyesztes  
Bauen Lande  
Behav Genet  
Beitr Österreichischen Stat Herausg  
Österreichischen Stat Zentralamt  
Belg Lait  
Beret Ostfold Skogselskap  
Beton Landbau  
BF (Butter-Fat)  
Bhagirath  
Biene  
Bienenwelt  
Binsteds Food Trade Rev  
Biochem Biophys Res Commun  
Biochem Genet  
Biochem J  
Biochem Physiol Pflanz BPP  
Biochemistry (Easton)  
Biochim Biophys Acta  
Biochimie  
Biokhimia  
Biol Reprod  
Biologico  
BioScience  
Brokteren  
Bul Inst Ziemniaka  
Bylittia  
Boll Lab Entomol Agrar (Portici)  
Bot Kozl  
Bot Mus Leaf Harv Univ  
Bot Not  
Bot Tidsskr  
Br Bee J  
Br J Pharmacol  
Br Poult Sci  
Bras Acucar  
Brew Dig  
Brittonia  
Broil Ind  
Bull Acad Pol Sci, Ser Sci Biol  
Bull Acad Vet Fr  
Bull Agric Exp Stn N C State Univ  
Raleigh  
Bull Agric Exp Stn Univ Del  
Bull Am Meteorol Soc  
Bull Ann Eleves Ec Meun ENSMIC (Ec  
Natl Super Meun Ind Cereal  
Bull B Conn Agric Exp Stn  
Bull CETIOM (Cent Tech Interprof Ol  
Metrop)  
Bull Cl Sci, 5e Ser Acad R Belg  
Bull Clemson Univ Coop U S Dep Agric  
Ext Serv  
Bull Coop Ext Serv Univ Ga Coll Agric  
Bull Dep Agric Econ N D Agric Exp  
Stn N D State Univ Agric Appl Sci  
Bull Environ Contam Toxicol  
Bull Epizoot Dis Afr  
Bull Fac Agric Univ Miyazaki  
Bull Gov For Exp Stn (Tokyo)  
Bull Idaho Agric Exp Stn Univ Idaho  
Coll Agric  
Bull Inf Rizic Fr  
Bull Int Assoc Sci Hydrol  
Bull La State Univ Agric Mech Coll Dep  
Agron Agric Exp Stn  
Bull Miss Agric For Exp Stn  
Bull Mont Agric Exp Stn Mont State  
Univ  
Bull Morris Arbor

Bull N J Agric Exp Stn Coll Agric  
Environ Sci Rutgers Univ State Univ  
N J  
Bull N M Agric Exp Stn  
Bull N Z Dep Sci Ind Res  
Bull OEPP (Organ Eur Mediterr Prot  
Plant)  
Bull Off Int Epizoot  
Bull Res Div, Va Polytech Inst State  
Univ  
Bull Sci, Sect A Sci Nat Tech Med Cons  
Acad Sci Arts RSF Yougosl  
Bull Soc Bot Fr  
Bull Soc Pathol Exot Ses Fil  
Bull Soc R Bot Belg  
Bull Soc R For Belg  
Bull Soc Sci Vet Med Comp Lyon  
Bull Soc Vaud Sci Nat  
Bull State Geol Surv Univ Kans  
Bull Taiwan For Res Inst  
Bull Tall Timbers Res Stn  
Bull Tech Inf Minist Agric (Paris)  
Bull Tech Inst Natl Rech Agron Dep  
Genet Anim  
Bull Tokai Kinki Natl Agric Exp Stn  
Bull Trimest Acad Soc Lorraines Sci  
Bull Trimest Soc For Franche Comte  
Prov Est  
Bull Univ Ill Coll Agric Agric Exp Stn  
Bull Va Coop Crop Rep Serv  
Bull Vet Inst Pulawy  
Bull W H O  
Bull W Va Univ Agric Exp Stn  
Bull Wash Agric Exp Stn  
Bull Wash (State) Agric Exp Stn  
Bull Wash (State) State Univ Ext Serv  
(Pullman)  
Bull Water Resour Res Cent Va Polytech  
Inst State Univ  
Bull Zool Nomencl  
Buvard  
C R Hebd Seances Acad Sci, Ser D Sci  
Nat  
C R Seances Soc Biol Fil Publ Concours  
Cent Natl Rech Sci  
Cac Soc Mex  
Cafe Cacao The  
Cah Med Vet  
Calif Plant Pathol Univ Calif Agric Ext  
Calif Vet  
Cameron Agric Pastor For  
Can Home Econ J  
Can J Biochem  
Can J Bot  
Can J Chem  
Can J Microbiol  
Can J Zool  
Can Plant Dis Surv  
Carnes Merc  
Cas Sleskeho Muz, Ser C Dendrol  
Castanea  
Cattleman  
Cattlemen  
CCP F A O  
Cell Mass Inst Technol  
Cell Tissue Res  
Cellul Carta  
Celul Hirtie  
Cereal Sci Today  
Cerrado  
Ceylon Vet J  
Champignon

## LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- Chem Commun  
Chem Ind (Lond)  
Chem Nat Compd  
Chem Pharm Bull  
Chem Phys Lipids  
Chromosoma  
Chron Przerz Ojczysta  
Cienc Abejas  
Circ Clemson Univ Coop U S Dep Agric  
Ext Serv  
Circ Coop Ext Serv Univ Ga Coll Agric  
Circ Coop Ext Serv Coll Agric Univ Ill  
Circ Inst Pesqui Exp Agropecu Norte  
(Belem)  
Circ N C Agric Ext Serv  
Circ Pa State Univ Coll Agric Ext Serv  
Circ S C Agric Exp Stn Clemson Univ  
Circ Tex For Serv Part Tex A M Univ  
Syst  
Citrograph  
Citrus Ind  
Citrus Sub-Trop Fruit J  
Citrus Veg Mag  
Clin Vet  
Coconut Bull  
Comb Proc Int Plant Propag Soc  
Commer Rabbit  
Commonw For Rev  
Comp Biochem And Physiol  
Coop Econ Insect Rep  
Cotton Dev  
Cotton Int Ed  
Cranberries  
CRC Crit Rev Food Technol (Chem  
Rubber Co)  
Crop Sci  
Cryobiology  
CSIRO Food Res Q  
Cuban J Agric Sci  
Cuckinipar  
Cultiv Mod  
Curr Rep W Va Univ Agric Exp Stn  
Curr Sci  
Curr Vet Ther  
Cytogenet Cell Genet  
Cytologia  
Dairy Farmer  
Dairy Herd Manage  
Dairy Ind  
Dairy Tales Agric Ext Univ Calif  
Dairy Top  
Darwiniana  
Delt Ellin Ktiniatr Etair  
Dep For Publ Sch Agric South Ill Univ  
Dev Grow Differ  
DFRC Proc (Distill Feed Res Council)  
Dokl Akad Nauk Az S Ssr  
Dokl Akad Nauk BSSR  
Dokl Akad Nauk SSSR  
Dokl Vses Akad S-kh Nauk  
Down Earth  
Dtsch Agrartechn  
E H P (Environ Health Perspect) Exp  
Issue  
Ecol Halophytes  
Econ Inf Rep Dep Econ N C State Univ  
Raleigh  
Econ Med Anim  
Econ Pamphlet Econ Dep Agric Exp Stn  
S D State Univ  
Econ Plant  
Econ Res Rep Dep Econ N C State Univ  
Raleigh  
Ekon Poljopr  
Ekon Sel'sk Khoz  
Ellenike Kteniast  
Entomol Arb Mus G Frey Tutzing  
Munch  
Entomol Exp Appl  
Entomol Mem  
Entomol Z  
Entomophaga  
Environ Entomol  
Environ Prot Technol Ser EPA U S  
Environ Prot Agency  
Equine Vet J  
Erdeszeti Kut  
Erdi  
ERS U S Dep Agric Econ Res Serv  
Essent Nematology  
Essex Suc Rev  
Euphytica  
Eur J Biochem  
Evolution  
Exp Gerontol  
Experientia  
Experientia  
Ext Bull Agric Ext Serv Univ Minn  
Ext Bull Dep Agric South Aust
- Ext Circ Coop Ext Serv Coll Agric Wash  
State Univ  
Ext Circ Coop Ext Serv Oreg State Univ  
Ext Fol Agric Ext Serv Univ Minn  
Ext Leaf L Ohio State Univ Ext Serv  
Farm Fact  
Farm Food Res  
Farm Income Situation  
Farm J (Calcutta)  
Farm Policy  
Farmer Parliament  
Farmers Bull U S Dep Agric  
FAS US U S Dep Agric Foreign Agric Serv  
Fed Proc Fed Am Soc Exp Biol  
Feddes Report  
Feline Pract  
Fert News  
Fert Prog  
Fette Seifen Anstrichm  
Fiji Timbers Their Uses  
Fiziol Rast (Mosk)  
FL U S Army Natick Lab Food Lab  
Fla Foliar Grow  
Fla Grower & Rancher  
Flora Gabon  
Florist  
Florists Rev  
Folia Entomol Mex  
Folia For  
Food Eng  
Food Management  
Food Manuf  
Food Nutr  
Food Nutr Notes Rev  
Food Process Ind  
Food Prod Dev  
Food Technol  
Food Technol Aust  
Food Technol N Z  
For Agric Circ Coffee CCOF (U S Dep  
Agric)  
For Econ  
For Farmer  
For Prot (Tokyo)  
Foreign Agric  
Foreign Agric Circ, Dairy FD (U S Dep  
Agric)  
Foreign Agric Circ FTEA U S Foreign  
Agric Serv  
Foreign Agric Circ, Poul FPE (U S Dep  
Agric)  
Forest (Neuchat)  
Forst Holzwirt  
Forstarchiv  
Fortschr Hochpolym Forsch  
Fortschritte Pflanzenzucht  
Fortschritte Landwirtsch  
Nahrungstutwirtsch  
Fragm Entomol  
Fresenius Z Anal Chem  
Fruit Belg  
Fruits & Abeilles  
Fruticicultura  
G Alleva  
Ga Vet  
Gard J  
Gartenbauwissenschaft  
Gaz Agric (Luanda)  
Gazdalkodas  
Gen And Comp Endocrinol  
Genetica  
Geoderma  
Geol Surv Water Supply Pap  
Getreide Mehli Brot  
Gewasbescherming  
Gidrotekh Melior  
Gorskostop Nauka  
Grasas Aceites  
Great Lakes Entomol  
Harvestore Farmer  
Hawaii Plant Rec  
Health Phys  
Helgolander Wiss Meeresunters  
Hemerocallis J  
Heredity  
Hoards Dairy  
Holzindustrie  
Home Gard Bull U S Dep Agric  
Hopfenrundscha  
Horace M Albright Conserv Lect  
Horse Facts  
Hortic Vitic Sci  
Hortsci  
Hum Ecol  
Husipar  
Hydrobiol J  
Hydrobiologia  
I C A R Tech Bull, Agric Ser (Indian  
Council Agric Res)  
Idaho Agric Res Prog Rep
- Iheringia, Ser Bot  
Ikon Selskoto Stop  
Ill Nat Hist Surv Bull  
Ill Res  
Ill Vet  
Immunochimistry  
Immunology  
In Aspects of the Introduction of Food  
Irradiation in Developing Countries  
Proceedings  
In Biologicheskii Osnovy Orroshaemogo  
Zemledelia  
In Domestikationsforschung und  
Geschichte der Haustierte  
Internationales Symposium in  
Budapest  
In Ekologicheskii i Evoliutsionnye  
Aspekty Povedeniia Zhivotnykh  
In Environmental Quality and Food  
Supply, P. L. White & D. Robbins,  
eds.  
In Environmental Remote Sensing  
Applications and Achievements Papers  
Presented at the Bristol Symposium  
In Fifth European Marine Biology  
Symposium, B. Battaglia, ed.  
In Forage Fertilization, D. A. Mays, ed.  
In International Environmental Law, L.  
A. Teclaff & A. E. Utton, eds.  
In International Symposium on Trace  
Element Metabolism in Animals  
In Introduksiia Rastenii i Zelenoe  
Stroutel'stvo  
In Land & Leisure Concepts and  
Methods in Outdoor Recreation  
IN Land- und Forstwirtschaft in einem  
Industrieland Aufgabenund Leistungen  
in Nordrhein-Westfalen  
In Management of National and Regional  
Water Resources Proceedings of the  
Conference  
In Natsionalna Konferentsiia po Botanika  
Sbornik Nauchni Trudove  
In Osushenie i Vosstanovlenie Lesa na  
Zabolochennykh Zemliakh  
Severo-Zapada Sbornik Nauchnykh  
Trudov  
In Report of Bean Improvement  
Cooperative and National Dry Bean  
Research Association Conference  
In Rural Development in Nigeria  
Proceedings of the Annual Conference  
of the Nigerian Economic Society  
In The Biology of the Laboratory Rabbit  
In Vitro  
In Sovesioznoe Soveshchaniie po  
Voprosam Primeniia Mikroelementov v  
Selskom Khoziaistve i Meditsine  
Ind Aliment  
Ind Aliment Ant  
Ind Azucar  
Ind Conserv  
Ind Liniere Fr Comit Cent Laine  
Ind Leche  
Ind Lennul  
Indian Dairy  
Indian Farmers Dig  
Indian Farming  
Indian For  
Indian J Agric Econ  
Indian J Anim Health  
Indian J Med Res  
Indian J Nutr Diet  
Indian J Power River Val Dev  
Indian Poul Gaz  
Indian Pulp Pap  
Indian Sugar  
Indian Text J  
Inf Bull, Coop Ext, Coop Ext, N Y State  
Coll Agric Life Sci  
Inf Internes Agric  
Inf Sobre Grasas Aceites  
Infect Immun  
Informasjon Skogind Okon Inst  
Insect Biochem  
Inst Prod Forestais Cortica  
Int Biodeterior Bull  
Int J Chronobiol  
Int J Protein Res  
Int J Radiat Biol Relat Stud Phys Chem  
Med  
Int Labor Rev  
Int Sugar J  
Ir Agric Cream Rev  
Ir J Agric Res  
Iran J Plant Pathol  
Iraqi J Agric Sci  
Irrig Agric Hereford  
ISI Bull (Indian Stand Inst)  
Isr Agric
- Izv Akad Nauk Az SSR, Ser Biol Nauk  
J Agric Chem Soc Jap  
J Agric Econ  
J Agric (Melb)  
J Agric Sci (Camb)  
J Agric Sci (Setagaya)  
J Agric Soc Trinidad Tobago  
J Agric West Aust  
J Am Anim Hosp Assoc  
J Am Chem Soc  
J Am Diet Assoc  
J Am Leather Chem Assoc  
J Am Oil Chem Soc  
J Am Soc Farm Manage Rural Apprais  
J Am Vet Med Assoc  
J Am Water Works Assoc  
J Anat  
J Appl Meteorol  
J Appl Physiol  
J Appl Polym Sci  
J Ariz Acad Sci  
J Assoc Off Anal Chem  
J Aust Entomol Soc  
J Bacteriol  
J Biochem (Tokyo)  
J Biol Stand  
J Bromeli Soc  
J Carbohydr Nucl Nucleotides  
J Cell Biol  
J Chem Soc, Perkin Trans I  
J Chem Soc, Perkin Trans II  
J Chem U A R  
J Chromatogr  
J Comp Physiol  
J Econ Entomol  
J Elisha Mitchell Sci Soc  
J Endocrinol  
J Exp Biol  
J Exp Zool  
J Fish Res Board Can  
J Food Sci Tech  
J Food Technol  
J For Suisse  
J Gen Appl Microbiol  
J Gen Physiol  
J Gen Virol  
J Helminthol  
J Histochem Cytochem  
J Hokkaido For Prod Res Inst  
J Horti Sci  
J Hydrol  
J Hyg  
J Hyg Epidemiol Microbiol Immunol  
J Immunol  
J Indian Acad Wood Sci  
J Interdis Cycle Res  
J Jap Bot  
J Jap For Soc  
J Jap Soc Air Pol  
J Jap Vet Med Assoc  
J Leisure Res  
J Membr Biol  
J Microsc (Paris)  
J Milk Food Technol  
J Mol Biol  
J Nat Hist  
J Nutr Sci Vitaminol  
J Org Chem  
J Parasitol  
J Pharm Soc Jap  
J Polym Sci, Part B Polym Lettr  
J R Horti Soc  
J Reprod Fertil  
J Sci Afr Biol Soc  
J Sci Soil Manure  
J Small Anim Pract  
J Soc Agric Mach Jap  
J Submicrosc Cytol  
J Suisse Apicul  
J Taiwan Agric Res  
J Text Inst  
J Theor Biol  
J Turk Phytopathol  
J Virol  
J Water Pollut Control Fed  
Jap J Ecol  
Jap J Genet  
Jap J Zootech Sci  
Jap Pestic Inf  
Jauank Mezsaimm  
Jordbrukekskon Medd  
Kajitsu Nippon  
Kartopliarstvo  
Kenya Coff  
Khim Sel'sk Khoz  
Kiserli Kozi (Budap)  
Krafftutter  
La Agric  
Lab Anim  
Lab Anim Sci



- Lab Anim United Bus Publ (N Y)  
Landarbeit  
Landwirtschaft Forsch Sonderh  
Lantbrukshögsk Medd, Ser A  
Laporan Dir Jenderal Kehutanan  
Latte  
Lav Arrozo  
Leaf Coop Ext Serv Univ Arkansas Div Agric  
Leaf Coop Ext Serv Univ Ga Coll Agric  
Leaf North Ireld Adv Serv Minist Agric  
Lenn From St'  
Lenn Zh Izv Vyssh Uchebn Zaved  
Life Sci  
Lipids  
Lippai Janos Tud Uleszak Eloadasi Kert Egy Kiad  
Livest Breed J  
Livest Meet Situation  
Lohnunterne Land Forstwirtschaft  
LSU For Notes  
LTC (Publ) Univ Wis (Land Tenure Cent)  
M A F E S Res Highlights (Miss Agric For Exp Stn)  
Madrono  
Magy Allatorv Lapja  
Maize News  
Malays Agric Res  
Mammalia  
Marek's Disease  
Mark Bull U S Dep Agric  
Mark Transp Situation  
Md Univ Coop Ext Serv MEP  
Meat Process  
Med Water  
Medd Gronl  
Medd Nor Inst Skogforskning  
Meded Landbouwhogesch Wageningen  
Mejeribruggets Uge-Nyt  
Meld Inst Bygningstek Nor  
Landbrukshögsk  
Melissokomik Elias  
Mem Fac Agric Niigata Univ  
Metod Zavad Vysled Vyzk Praxe  
Meun Belg Belg Maalderij  
Mex For  
Mex Sus Bos  
Mezhdunar S-kh Zh  
Mich Acad  
Microbiology  
Microbes  
Microlepid Paleart  
Mikrokosmos  
Milchwissenschaft  
Milk Ind  
Milling  
Minn Agric Econ  
Minn Dairyman Agric Ext Serv Univ Minn  
Misc Bryol Lichenol  
Mitt DLG (Dtsch Landwirtschaft Ges), Ausg A  
Mitt Entomol Ges BRD  
Mitt Obstbauversuchsanst Jork  
Mitt Rebe Wien Ostbau Fruchtverwert  
Mitt Schweiz Landwirtschaft  
Mod Dairy  
Mod Vet Pract  
Mol Biol Rep  
Mol Cell Biochem  
Mol Gen Genet (MGG)  
Molineria Panaderia  
Mol-Zig Welt Milch  
Monti Zool Ital  
Monti Zool Ital, Suppl  
Monogr Bot  
Monti Boschi  
Mosq Syst News Lett  
MP Tex A M Univ Tex Agric Exp Stn  
MP Univ Md Agric Exp Stn  
Mt Grow  
Muelleria  
Muhle Mischfüttertech  
Mushroom J  
Mycologia  
Mycopathol Mycol Appl  
N S W Dairyman  
N Y Food Life Sci Bull N Y State Agric Exp Stn  
N Z Vet J  
Nahrung  
Nat Belg  
Nat Hist  
Nat Mus  
Nation's Schools  
Natl Cae Suc J  
Natl Inst Anim Health Q (Tokyo)  
Natl Pest Control Oper News  
Naturalist  
Nature  
Naturforsch Naturp  
Naturwiss Rundsch  
Nauka Pol  
Nebr Tractor Test  
New Guinea Res Bull  
New Phytol  
News Am Coll Vet Toxicol  
News N J Beekeep Assoc  
Nihon Shokuhin Eisei Gakkai J Food Hyg Soc Jap  
Niwarotino-kenkyu Nowatori No  
Kenkyusha (Poult J Poult Res Assoc)  
Nogyo Gijutsu  
Nor Landbruk  
Nord Hydrol  
Nord Veterinaarmed  
Not Entomol  
Not Neosan  
Nouv Avic  
Novenstermes  
Nowe Roln  
Nuova Vet  
Nuovi Ann Ing Microbiol  
Nutr News  
Nutr Program News  
Nutr Rev  
Obz Inf Minist Sel'sk Khoz SSSR Vses Nauchno-Issled Inst Inf Tekh-Ekon  
Issled Sel'sk Khoz  
Oecologia  
Off Proc Annu Meet Am Assoc Feed Microse  
Okla Curr Farm Econ  
Oleagineux  
OMEGA Int J Manage Sci  
Onderstepoort J Vet Res  
Orchard N Z  
Orchid Dig  
Orquideologia  
Outlook Agric  
P R Tex Agric Exp Stn Coll Stn  
PA U S Dep Agric  
Pamiet Lawski  
Pap Proc R Soc Tasman  
Pap Puu  
Papua New Guinea Agric J  
Parasitol Schriftent  
Parasitology  
Pastor Rev  
Pchelarstvo  
Peanut J Nut World  
Pecan Q  
Pedology  
Pesticides  
Pflanzenarzt  
Philipp J Nutr  
Phillip J Nutr  
Photochem Photobiol  
Physiol Plant  
Physiol Plant Pathol  
Physiol Veg  
Phytochemistry  
Phytopathology  
Phytophylactica  
Pig Farming  
Plant Dis Rep  
Plant Pathol  
Plant Physiol  
Plant Soil  
Planta  
PM Coop Ext Serv Iowa State Univ  
PNW Bull (Pac Northwest Fert Conf)  
Pol J Soil Sci  
Postepy Drobniarst  
Poult Sci  
Power Farming  
Power Farming Mag  
Pr Inst Badaw Lesn  
Pr Kom Nauk Roln Kom Nauk Lesn  
Poznan Tow Przejz Nauk Wydz Nauk Roln  
Prakt Landbruk  
Prakt Schädlingbekämpfung  
Prep Biochem  
Proc Annu Corn Sor Res Conf  
Proc Annu Pac Northwest Fert Conf  
Proc Annu Water Conf Water Resour  
Res Inst N M State Univ  
Proc Cornell Nutr Conf Feed Manuf  
Proc Crop Sci Soc Jap  
Proc Great Plains Agric Council  
Proc Natl Acad Sci U S A  
Proc R Entomol Soc Lond, Ser A Gen Entomol  
Proc Tech Sect Can Pulp Pap Assoc  
Proc Trop Reg Am Soc Hortic Sci  
Proc West For Conf  
Proc West Sect Am Soc Anim Sci  
Proceedings of Annual Meeting Southern Regional Avian Environmental Physiol and BioEng Study Group  
Proceedings Poultry Housing Environmental Seminar  
Prod Agric Fr  
Prog Agric Vitic  
Prog Farming  
Progr Terrienne  
Protistologica  
Protozoologia  
Psychie  
Pszczelnictw Zesz Nauk  
Publ Agric Can  
Publ Dep Environ Can For Serv  
Publ Entomol Univ Calif  
Publ Ext Serv Miss State Univ Coop U S Dep Agric  
Publ Misc Program Coop Centroam Adv Program  
Mejora Cultiv Aliment  
Publ R Univ Wis Coll Agric Life Sci  
Pulp & Pap Can  
Q J Chin For  
Q J Exp Physiol Cogn Med Sci  
Q Serv Farm Ranch Home Univ Nebr  
Coll Agric Home Econ  
Queensl Agric J  
R Agric Exp Stn Max C Fleischmann  
Coll Agric Univ Nev Reno  
Radiat Res  
Ranch Mag  
Rass Chim  
Recent Prog Horm Res  
Recl Med Vet  
Reordenamento  
Rep Ser Agric Stn Div Agric Univ Arkansas  
Rep Univ Newcastle Upon Tyne Dep Agric Econ  
Res Bull Coll Exp For Hokkaido Univ  
Res Bull Pac Agric Gifu Univ  
Res Bull Hokkaido Natl Agric Exp Stn  
Res Bull Int Maize Wheat Improv Cent  
Res Bull Nebr Agric Exp Stn  
Res Bull Purdue Univ Agric Exp Stn  
Res Bull Univ Ga Coll Agric Exp Stn  
Res J Agric Exp Stn Univ Wyo  
Res Norw Agric  
Res Note INT U S Dep Agric For Serv  
Internat For Range Exp Stn  
Res Note NC USDA For Serv North Cent For Exp Stn For Serv U S Dep Agric  
Res Pap Land Tenure Cent Univ Wis Madison  
Res Rep Mich State Univ Agric Exp Stn  
Res Rep Mont Agric Exp Stn Mont State Univ  
Res Rep P OSU Agric Exp Stn (Okla State Univ)  
Res Rep Univ Ga Coll Agric Exp Stn  
Res Summ Ohio Agric Res Dev Cent  
Respir Physiol  
Rev Agric (Piracicaba)  
Rev Agric Soc Ile Maurice  
Rev Bras Econ  
Rev Bryol Lichenol  
Rev Cafe  
Rev Cafetalera  
Rev Ceres  
Rev Criad  
Rev Ecol Biol Sol  
Rev Hortie  
Rev Hortie Suisse  
Rev Ind Agric Tucuman  
Rev Invest Agropecu, Ser 1 Biol Univ Anim  
Rev Invest Agropecu, Ser 3 Clima Suelo  
Rev Lait Fr  
Rev Latinoam Microbiol  
Rev Med Vet (B Aires)  
Rev Med Vet (Toulouse)  
Rev Suisse Agric  
Rev Suisse Vitic Arboric  
Rev Vet Can  
Rev Vinic Int  
Rev Zool Afr  
Rheinische Bienenzeitg  
Rice J  
Ringyo Gijutsu For Tech  
Riv Agron  
Riv Ital Sost Grasse  
Riv Ortoflorofruttic Ital  
Riv Parasitol  
Riv Patol Veg  
Rocz Glebozn  
Rostl Vyroba  
RTVA (Rev Tech Vet Abattoirs Hyg Aliment)  
S Afr For J  
Sammelr Nord Landbruksokonomiske Inst Sakh Prom-st'  
Samara Agric News  
Samaru Res Bull  
Sante Abeille  
Sb Provencz Ekon Fak Cesk  
Budejovicki Ekon Rada  
Sb UVITI, Ochr Rostl Cesk Akad Zemed (Ustav Vedeckotech Inf)  
Sch Foodserv J  
Schriftent Agrarsozial Agrarrecht Inst Agrarsozial Agrarrecht  
Schweiz Arch Tierheilk  
Schweiz Z Obst Weinbau  
Sci Total Environ  
Science  
Sea Grant S G Oreg State Univ Mar Adv Program  
Search Agric  
Search, Sci Technol Soc  
Seed World  
Sel Vet Ist Zooprofil Sper Lomb Emilia Sellowia  
Selskostop Nauka  
Ser Rastenievud Selskostop Akad \*Georgi Dimitrov Nauchni Tr  
Shokubutsu Boki  
Sib Vestn S-kh Nauk  
Skogen  
Smaskrift Landbruksdep  
Opplysningsstjenesten (Norway)  
Soc Econ Stud  
Soil Assoc  
Soil Biol Biochem  
Soil Conserv  
Soil Sci  
Soil Water  
South Vet  
Sov Genet  
Sov J Dev Biol  
Sov Plant Physiol  
Sov Forstwirtschaft  
Spain  
Spec Circ Pa State Univ Ext Serv  
Spec Rep Agric Home Econ Exp Stn Iowa State Univ Sci Tech  
Spec Rep Mo Agric Exp Stn  
Spec Rep Va Polytech Inst State Univ Wood Res Wood Constr Lab  
Spec Pap Dep Agric Appl Econ Univ Minn  
Stain Technol  
Stat Bull U S Dep Agric  
Stat Rep World Agric Prod Trade  
Statni Statky  
Steroids  
Stud Cercet Biochim  
Stud Inf, Rostl Vyroba  
Stud Inf, Vseob Otazky Zemed  
Stud Inf, Zemed Tech  
Study Tea  
Suer Belg  
Sugarbeet  
Sunshine State Agric Res Rep  
Sven Bot Tidskr  
Sychnonos Ga  
Sylvan  
Taiwan Sugar  
Taiwan Water Conserv  
Taiwania  
Tappi (Tech Assoc Pulp Paper Ind)  
Tec Molit  
Tech Bull Agric Res Serv U S Dep Agric  
Tech Bull N C Agric Exp Stn  
Tech Bull Okla Agric Exp Stn  
Tech Bull Univ Maine Orono Life Sci Agric Exp Stn  
Tech Ind Cereal  
Tech Q Mast Brew Assoc Am  
Tech Zynw Zesz Nauk Akad Roln Tech Olsztynie  
Tek Bul Bornova Zirai Mucadele Enst  
Tenn Farm Home Sci Prog Rep  
Teratology  
Tetrahedron  
Tetrahedron Lett  
Tech Agric Prog  
Text Res J  
Therionogenology  
Tidskr Skogbruk  
Tidskr Plant  
Tierra  
Tierzucht  
Tijdschr Diergeneesk  
Toxicol Appl Pharmacol  
Tr Acad Nauk SSSR Sibirsk Otd Biol Inst  
Trans Am Microsc Soc  
Trans R Soc South Aust Inc

## LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- Trans R Soc Trop Med Hyg  
 Tree Plant Notes  
 Trop Ecol  
 Trop Grassl  
 Trop Sci  
 TSitologia  
 Tud Kozl Erdeszeti Faipari Egy  
 Turrialba  
 TVS Veg Situation Econ Res Serv U S  
   Dep Agric  
 U S D A For Serv Res Pap FPI  
 U S D A For Serv Res Pap INT (U S  
   Dep Agric Intermt For Range Exp  
   Stn)  
 U S D A For Serv Res Pap NE (U S  
   Dep Agric Northeast For Exp Stn)  
 U S D A For Serv Resour Bull NE (U S  
   Dep Agric Northeast For Exp Stn)  
 U S D A For Serv Resour Bull SE (U S  
   Dep Agric For Serv Southeast For Exp  
   Stn)  
 U S For Serv Res Note RM (Rocky Mt  
   For Range Exp Stn)  
 U S For Serv Res Pap RM (Rocky Mt  
   For Range Exp Stn)  
 Ukr Bot Zh  
 Umschau  
 Unasylya  
 Uroda  
 USDA For Serv Gen Tech Rep NC  
   North Cent For Exp Stn Fo R Serv U  
   S Dep Agric  
 USDA For Serv Res Note PNW (Pac  
   Northwest For Range Exp Stn U S  
   Dep Agric)  
 USDA For Serv Res Note SE (U S Dep  
   Agric For Serv Southeast For Exp Stn)  
 USDA For Serv Res Pap PNW (Pac  
   Northwest For Range Expstn U S Dep  
   Agric)  
 USDA For Serv Resour Bull NC (U S  
   Dep Agric North Cent For Exp Stn)  
 Utah Sci  
 VAE (Va Agric Econ)  
 Vcelar  
 Vcelarstvi  
 Versl Landbouwk Onderz Cent  
 Landbouwpubl Landbouwdoc  
 Vestn Akad Nauk Kaz SSR  
 Vestn Moskovsk Univ, Geogr  
 Vestn S-kh Nauki (Mosc)  
 Vestn Stat  
 Vestsi Ser Sel'skagospad Navuk Akad  
   BSSR  
 Vet Pathol  
 Vet Rec  
 Vet Sb  
 Vet Scope  
 Veterinariia (Mosk)  
 Veterinarstvi  
 Victorian Hortie Dig  
 Vida Rural  
 Vinodel Vinograd SSSR  
 Virology  
 Visn Sil's'kohspod Nauki  
 Visnyk Akad Nauk URSR  
 Vitamin  
 VM SAC (Vet Med Small Anim Clin)  
 VP X Environ Can For Serv  
 Vt Farm Home Sci  
 W H O Tech Rep Ser  
 Wasmann J Biol  
 Water Resour Bull  
 Weed Res  
 West Wildlands  
 Wien Tierarztl Monatsschr  
 Wies Wspolczesna  
 Wilhelm Roux Arch Entwicklunsmech  
   Org  
 Wintertagung  
 Winzer  
 Wirtschseig Futter  
 Wiss Z, Math Naturwiss Reihe  
 Wood Ind  
 Wood Sci Technol  
 Wool Econ Res Rep Bur Agric Econ  
   (Canberra)  
 World Wood  
 Wydawn Wlasne Inst Zootech (Warsz)  
 Z Morphol Tiere  
 Z Pflanzenzucht  
 Z Tierphysiol Tierernahr Futtermittelkd  
 Zemed Ekon  
 Zentralbl Bakteriol Parasitenkd  
   Infekionskr Hyg, I Abt Orig, reihe A  
   Med Mikrobiol Parasitol  
 Zentralbl Veterinarmed, Reihe A  
 Zentralbl Veterinarmed, Reihe B  
 Zesz Nauk Ochr Wod Rybactwo  
   Srodladowe Akad Roln-Tech Olsztynie

Zesz Nauk Szk Gl Gospod Wiejsk  
   Warsz, Ekon Organ Roln  
 Zesz Nauk Zootech Akad Roln-Tech  
   Olsztynie  
 Zhivotnovodstvo  
 Zhivotnovudstvo  
 Zivocisna Vyroba  
 Zool Scr

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## PHYSIOLOGY AND BIOCHEMISTRY OF FOREST TREES

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Content of IAA (indoleacetic acid) in shoots of Norway spruce as a function of growth phases and development classes of the trees. [Picea abies]. Merks, A I; Skuodene, L P *Sov Plant Physiol* 21 (2): 273-278. Ref. Mar/Apr 1974 (Trans. 1974)

450 F58AE  
Cultivation of green isolated tissues of spruce seedlings on an artificial medium. [Picea abies]. Shiryayeva, G A; Yatsenko-Khmelevskii, A A *Sov Plant Physiol* 21 (2): 296-301. Ref. Mar/Apr 1974 (Trans. 1974)

450 F58AE  
The role of native abscisic acid in dormancy of the seeds of Tatar maple. [Acer tataricum]. Petrova, V N; Nikolaeva, M G *Sov Plant Physiol* 21 (2): 279-284. Ref. Mar-/Apr 1974 (Trans. 1974)

## PLANT FUNGUS DISEASES AND CONTROL

450 F58AE  
Dynamics of lipid content and composition in germinating uredospores of the agent of wheat stem rust. [Puccinia graminis tritici]. Chigrin, V V; Bessmel'tseva, L M *Sov Plant Physiol* 21 (2): 234-239. Ref. Mar/Apr 1974 (Trans. 1974)

450 F58AE  
Metabolic activity of cellular structures in cotton plants infected with the fungus *Verticillium dahliae* Kleb. Plekhanova, L S; Gevorkyan, Zh G; Safarov, Sh; Ibragimov, A P *Sov Plant Physiol* 21 (2): 324-329. Ref. Mar/Apr 1974 (Trans. 1974)

## MISCELLANEOUS PLANT DISEASES, INJURIES AND CONTROL

448.3 M582AE  
The toxic effect of arsenate on yeast. Mosin, A F; Petrova, K M; Kharchuk, A I; Abatur, Y D *Microbiology* 43 (1): 74-77. Ref. Jan/Feb 1974 (Transl. 1974)

QH431.A1G43  
Statistical analysis of radiation damage to plant chromosomes in relation to the variability of experimental data. [Broadbeans]. Ganassi, E E; Lyamin, E A; Aptikava, G F; Eidus, L Kh *Sov Genet* 7 (12): 1533-1539. Ref. Dec 1971 (Transl. Mar 1974)

450 F58AE  
Changes in the range of functions in generations of corn during increase of drought resistance. Shcherbakov, B I *Sov Plant Physiol* 21 (2): 303-308. Ref. Mar/Apr 1974 (Trans. 1974)

450 F58AE  
Increasing the capacity of woody plants for frost hardening by treating them with extracts of natural growth inhibitors. [Currants, Betula, frost resistance]. Tumanov, I I; Kuzina, G V; Karmikova, L D *Sov Plant Physiol* 21 (2): 309-317. Mar/Apr 1974 (Trans. 1974)

450 F58AE  
Study of chemical composition, state of water, and certain functional indices in mitochondria of winter wheat. [Frost resistance]. Khokhlova, L P; Denisova, G A; Rykalova, N I; Khazhina, R G *Sov Plant Physiol* 21 (2): 203-209. Ref. Mar/Apr 1974 (Trans. 1974)

450 F58AE  
Toxicity of alkaline cations for tomato plants. Kabanov, V V; Myasodov, N A *Sov Plant Physiol* 21 (2): 318-323. Ref. Mar-/Apr 1974 (Trans. 1974)

## GENERAL ENTOMOLOGY

QH90.A1H93  
Relative weight gain of chironomid larvae. Nechvalenko, S P *Hydrobiol* J9 (2): 82-87. 1973

QH431.A1G43  
Nature of the spots produced on the bodies of female *Drosophila melanogaster* under the influence of methylmethane sulfonate. Abeleva, E A; Burychenko, G M *Sov Genet* 7 (4): 541-542. Apr 1971 (Transl Sept 1973)

QH491.S66  
Structural and functional organization of the oocyte nucleus in *Chrysopa* (Neuroptera). III. Extrachromosomal DNA in early oogenesis. Zaichikova, Z P; Gruzova, M N *Sov J Dev Biol* 4 (6): 541-549. Ref. Nov/Dec 1973 (Transl. 1974)

## TAXONOMIC ENTOMOLOGY

QH90.A1H93  
Benthos of the Arakum Lakes. [Insects]. Guseynov, M K *Hydrobiol* J9 (2): 48-53. Ref. 1973

QH90.A1H93  
Species composition of chironomid larvae in the Delta of the Volga. Aleksevina, M S *Hydrobiol* J9 (3): 61-63. Ref. 1973

QH90.A1H93  
Vertical zoning of Tien Shan mountain streams, in terms of the distribution of representative water insects. Brodskiy, K A; Omorov, E O *Hydrobiol* J9 (2): 21-31. Ref. 1973

## APICULTURE AND SERICULTURE

QH491.S66  
Features of the maturation of polyplod oocytes of the silkworm (*Bombyx mori* L.) in artificial parthenogenesis. II. Triploids. Vereiskaya, V N; Vinnik, T A *Sov J Dev Biol* 4 (6): 572-575. Ref. Nov/Dec 1973 (Transl. 1974)

## SOIL SCIENCE

QH345.A1P73  
Influence of the temperature of culturing on the fatty acid composition of the lipids of yeast grown on peat hydrolyzates. [Lipomyces lipoferus, soils]. Zalashko, M V; Adreetskaya, V D; Obratsova, N V *Appl Biochem Microbiol* 8 (6): 586-589. Ref. Nov/Dec 1972 (Transl. 1974)

448.3 M582AE  
Cytochromes of *Azotobacter chroococcum* and *Azotobacter miscellum*. [Soil bacteria]. Vearanets, L D; Matus, V K; Rashba, E Y *Microbiology* 43 (1): 7-11. Ref. Jan/Feb 1974 (Transl. 1974)

448.3 M582AE  
Influence of aeration on microbiological processes in flooded soil. Ilyaitdinov, A N; Suleimanova, S I *Microbiology* 43 (1): 119-122. Jan/Feb 1974 (Transl. 1974)

## WATER RESOURCES AND MANAGEMENT

QH90.A1H93  
An attempt at evaluating the stability of an aquatic ecosystem. Fedorov, V D; Sokolova, S A *Hydrobiol* J9 (2): 6-8. 1973

QH90.A1H93  
Relationship between diversity of phytoplankton species and mineral supply. [Ecology, water]. Fedorov, V D *Hydrobiol* J9 (3): 9-12. 1973

QH90.A1H93  
The subject-matter, structure, and tasks of hydrobiology. Borutskiy, YE V; Karzinkin, G S; Konstantinov, A S; Mel'nikov, G B; Nikol'skiy, G V; Starostin, I V; Stroganov, N S; Telitshenko, M M; Tskhomelidze, O I *Hydrobiol* J9 (3): 69-76. 1973

QH90.A1H93  
The vertical structure of an aquatic ecosystem based on its mathematical model. Krapivin, V F *Hydrobiol* J9 (2): 1-5. Ref. 1973

448.3 M582AE  
Growth of bacteria on dissolved organic matter of freshwater reservoirs. Romanenko, V I; Nikiforova, E P *Microbiology* 43 (1): 112-115. Jan/Feb 1974 (Transl. 1974)

448.3 M582AE  
The microflora of different types of mineral waters in the southeastern part of western Siberia. Tronova, T M *Microbiology* 43 (1): 108-111. Ref. Jan/Feb 1974 (Transl. 1974)

## GENERAL NATURAL RESOURCES AND ENVIRONMENTAL POLLUTION

QH90.A1H93  
Problems of biological self-purification and pollution of water bodies. Davydov, O N; Velichko, I M *Hydrobiol* J9 (3): 85-86. 1973

QH90.A1H93  
The effect of collector drain effluents from rice fields on the zooplankton of certain Kuban' lagoons. [Water pollution, pesticides]. Panchenko, S YE; Proskurnina, YE S *Hydrobiol* J9 (3): 55-60. 1973

448.3 M582AE  
Microbiological characteristics of active sludge used to purify effluents from antibiotic production. Leonova, V E; Karpukhin, V F *Microbiology* 43 (1): 116-118. Jan/Feb 1974 (Transl. 1974)





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The contents of the "Bibliography of Agriculture" have been expanded starting with this issue. With the cooperation of Macmillan Information and the National Agricultural Library, we have been able to identify the various sections of the *B of A* which were in the original publication issued by the U.S. Department of Agriculture prior to 1970, but which were dropped by Macmillan. Several of these are now included. There are separate sections of USDA, FAO, Experiment Station, and Extension Service publications, with full bibliographic data; there is a list of Translated Publications; and there is a list of Journal Titles indexed in each issue of the *B of A*.

In addition, no titles have been truncated, and each personal or corporate author of each publication has been included in each main entry citation.

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5. We have added a list of the Journal Title Abbreviations Cited in each issue of the *B of A*. Is it of any value to you? \_\_\_\_\_ Would it be of any additional value if it included the volume and issue number of the journal cited? \_\_\_\_\_

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7. The format of the entries in the Subject Index to the "Bibliography of Agriculture" has been changed. Complete titles are now given under each control word. No titles are being truncated, and the titles appear in alphabetical order under each control word. This change will result in many more pages of Subject Index entries than before. Are you in agreement with these changes? \_\_\_\_\_ Please give your reasons for answering yes or no.

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\*These categories are infrequently used

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# INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

## CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into nine sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, and a personal author index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

## MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

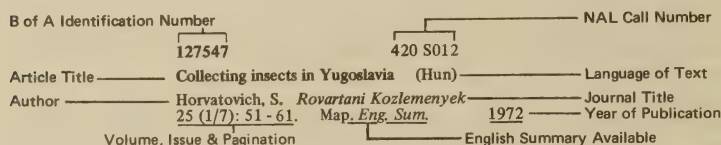


Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

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(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
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(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
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(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
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## MAIN ENTRY SUB-SECTIONS

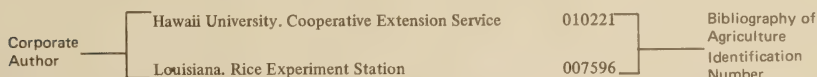
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications; State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries appear in The Main Entry Section as well as in the sub-sections.

## GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

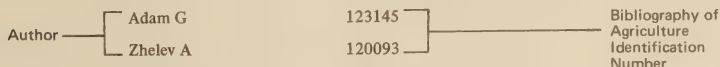
## CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



## AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



## AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

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 A E Ext Dep Agric Econ N Y State Coll  
 Agric Contract Coll State Univ Cornell  
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 Agric Exp Stn Pa State U  
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 Acta Phytotaxon Geobot (Kyoto)  
 Acta Pol Pharm (Engl Transl)  
 Acta Univ Agric, Fac Agroecoon  
 Acta Univ Agric, Fac Agron  
 Acta Univ Agric, Fac Silvica  
 Acta Vet  
 Acta Vet Scand  
 Acta Virol  
 Acta Zool (Stockh)  
 Acta Zootech  
 ADAS Q Rev (Agric Dev Advis Serv)  
 Advis Leaflet East Scot Coll Agric Edinb  
 Sch Agric  
 Advis Leaflet Minist Agric Fish Food  
 (Edinb)  
 Advis Leaflet West Scot Coll Agric Coll  
 AE Dep Agric Econ Rural Sociol  
 Clemson Univ  
 Aerial Appl  
 Ag Stat N D Crop Livest Rep Serv  
 AGR Ky Univ Dep Agron  
 Agron Univ J Res, Sci  
 Agrekon  
 Agric Adm  
 Agric Am  
 Agric Asia  
 Agric Aviat  
 Agric Biol Chem  
 Agric Econ Ext Inf Ser Univ Ky Coll  
 Agric Coop Ext Serv  
 Agric Econ Rep Dep Agric Econ Mich  
 State Univ  
 Agric Econ Rep Econ Res Serv U S Dep  
 Agric  
 Agric Econ Res  
 Agric Educ  
 Agric Eng (St Joseph, Mich)  
 Agric Exp Stn Res Rep N M State Univ  
 Agric Ext Serv Univ Minn Spec Rep  
 Agric Gaz N S W  
 Agric Handb U S Dep Agric  
 Agric Hong Kong Agric Fish Dep Hong  
 Kong  
 Agric Hortie  
 Agric Inf Bull U S Dep Agric  
 Agric Meteorol  
 Agric North Ire  
 Agric Res  
 Agric Situation (Washington)  
 Agric Tec  
 Agricole (Marches Agric)  
 Agricultura (Madr)  
 Agriculture (Que)  
 Agro Sur  
 Agrochemia (Bratisl)  
 Agrociencia  
 Agrologist  
 Agron Glas  
 Aktuel Landbrukshogsk (Upps)  
 Aktuell Litinf Obstbau Berlin Tech Univ  
 Bibl  
 Ala For Prod  
 Ala mar Resour Bull  
 Allg Forstz  
 Am Bee J  
 Am Christmas Tree J  
 Am Dairy Rev  
 Am Hortie Mag  
 Am J Biol Sci  
 Am J Epidemiol  
 Am J Nursing  
 Am J Physiol  
 Am J Trop Med Hyg  
 Am J Vet Res  
 Am Metric J  
 Am Midl Nat  
 Am Nurserym  
 Am Orchard Soc Bull  
 Am Veg Grow  
 Am Vocational J  
 Am Zool  
 Amer J Clin Nutr  
 An Col Of Vet Prov  
 An Inst Nat Invest Agrar, Ser Prod Veg  
 An Soc Cient Argent  
 An Soc Rural Argent  
 Anal Biochem  
 Anal Chim Acta  
 Anal Situation Agric Sinaloa  
 Anat Rec  
 Angew Bot  
 Anim Blood Groups Biochem Genet  
 Anim Husb  
 Ann Acad Sci Fenn, Ser A, I#v Biol  
 Ann Amelior Plant  
 Ann Bot Fenn  
 Ann Entomol Fenn  
 Ann Geogr  
 Ann Hydrobiol  
 Ann Med Vet  
 Ann Med Vet  
 Ann N Y Acad Sci  
 Ann Pharm Fr  
 Ann Sci Nat Bot Biol Veg  
 Annu Prog Rep N Y Farm Electric  
 Counc  
 Annu Stat Rep, Rural Teleph Borrow  
 Anz Schädlingssk Pflanzenschutz  
 Apiacta  
 Apidologie  
 Appl Microbiol  
 Arbeiten Hohenheim Univ  
 Arbok Univ Bergen, Mat Naturvitensk  
 Ser  
 Arboric Fruit  
 Arch Acker- Pflanzenbau Bodenkd  
 Arch Environ Contam Toxicol  
 Arch Exp Veterinarmed  
 Arch Inst Pasteur Hell  
 Arch Latinoam Nutr  
 Arch Mikrobiol  
 Arch Naturschutz Landschaftsforsch  
 Arch Phytopathol Pflanzenschutz  
 Arch Vet Ital  
 Arch Zool Exp Gen  
 AREIS Coop Ext Serv Univ Md (Agric  
 Resour Econ Inform Ser)  
 Arkh Anat Gistol Embriol  
 Arnoldia  
 Arnoldia Rhod  
 Arrozo Asoc Nac Prod Arrozo  
 ARS-H U S Agric Res Serv U S Dep  
 Agric Plant Entomol Sci  
 ARS-NC Agric Res Serv U S Dep Agric  
 ARS-nc U S Agric Res Serv Northeast  
 Reg  
 ARS-S U S Agric Res Serv South Reg  
 Articulation  
 Audiovisual Instruction  
 Aust Beekeep  
 Aust J Agric Res  
 Aust J Biol Sci  
 Aust J Exp Agric Anim Husb  
 Aust J Plant Physiol  
 Aust J Zool  
 Aust J Zool, Suppl Ser  
 Aust Sugar J  
 Aust Vet J  
 Aust Water Resour Counc Hydrol Ser  
 Av Aliment Mejora Anim  
 B Coop Ext Programs Univ Wise  
 Barometriar  
 Beaufortia  
 Bedrijfsontwikkeling  
 Behaviour  
 Beih Z Angew Zool  
 Belg Agric  
 Ber Forschungsstelle Nedri As  
 Ber Schweiz Bot Ges  
 Beret Forsogslab (Kobenh)  
 Berl Munch Tierarztl Wochenschr  
 Better Crops Plant Food  
 Biatas, The Tillage Farmer  
 Bienenpflege  
 Bienenwelt  
 BIF (Assoc Anc Elevés Inst Indust  
 Ferment Brux)  
 Big Farm Manage  
 Bi-mon Res Can For Serv  
 Biochem Biophys Res Commun  
 Biochem J  
 Biochem Syst  
 Biochemistry (Easton)  
 Biochim Biophys Acta  
 Biokhimiya  
 Biol Bull  
 Biol J Linn Soc  
 Biol Leaflet (Wash, D C)  
 Biol Plant  
 Biol Reprod  
 Biol Rundsch  
 Biol Zentralbl  
 Biol Zh Arm  
 Biologia, Ser B Zool  
 Biologico  
 Biologist  
 Biophys Chem  
 Biophysik  
 Biotechnol Bioeng  
 Bitki Koruma Bul  
 Blatter Landtech  
 Bol Agric  
 Bol Bot  
 Bol Cent Panam Fiebre Aftosa  
 Bol Chil Parasitol  
 Bol Tec Inst Pesqui Agropecu Sul  
 (Pelotas)  
 Bol Univ P R Recinto Mayaguez Estac  
 Exp Agric  
 Bot J Linn Soc  
 Bot Mag  
 Bot Mar  
 Br Food J  
 Br J Dermatol  
 Br J Exp Pathol  
 Br J Ind Med  
 Br J Nutr  
 Br Med J  
 Br Sugar Beet Rev  
 Bras Flores  
 Brauwelt  
 Broil Ind  
 Bull Acad Pol Sci, Ser Sci Biol  
 Bull Azabu Vet Coll  
 Bull Br Mus Nat Hist Entomol  
 Bull CETIOM (Cent Tech Interprof Ol  
 Metrop)  
 Bull Chem Res Inst Nonaqueous Solu  
 Bull Chugoku Agric Exp Stn, Ser E  
 Bull Coop Ext Serv Mont State Univ  
 Bull Coop Ext Serv Ohio State Univ  
 Bull Coop Ext Serv Univ Ga Coll Agric  
 Bull Coop Ext Serv Univ Md  
 Bull Entomol Soc Am  
 Bull Environ Contam Toxicol  
 Bull Exp For Tokyo Univ Agric Technol  
 Bull Fla Dep Agric  
 Bull Inst Chem Res Kyoto Univ  
 Bull Inst Zool Acad Sin  
 Bull Jap Soc Sci Fish  
 Bull Ky Agric Exp Stn  
 Bull Landbouwprefect Suriname  
 Bull Lincoln Coll N Z Dep Hortie  
 Bull Mens Soc Linn Lyon  
 Bull Minist Agric Fish Food (Lond)  
 Bull Mont Agric Exp Stn Mont State  
 Univ  
 Bull Mus Comp Zool (Harvard Univ)  
 Bull N D Seed Dep  
 Bull Off Int Epizoot  
 Bull Pa State Univ Coll Agric Agric Exp  
 Stn  
 Bull Rech Agron Gembloux  
 Bull Soc Bot Fr  
 Bull Soc Chim Belg  
 Bull Soc Entomol Fr  
 Bull Soc Sci Hyg Aliment  
 Bull South Calif Acad Sci  
 Bull Tex Crop Livest Rep Serv  
 Bull Torrey Bot Club  
 Bull W H O  
 Bull Wash (State) State Univ Ext Serv  
 (Pullman)  
 Bull Wildl Dis Assoc  
 C Coop Ext Serv Max C Fleischmann  
 Coll Agric Univ Nev Reno



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- C R Activ Assoc For Cellul  
C R Seances Soc Biol Fil Publ Concours  
Cent Natl Rech Sci  
Cac Suc J  
Cafe Cacao The  
Cah Ing Agron  
Calif Agric  
Calif Fire Control Notes  
Can Agric  
Can Entomol  
Can Farm Econ  
Can Field Nat  
Can Home Econ J  
Can Inst Food Technol J  
Can J Biochem  
Can J Bot  
Can J Chem  
Can J Comp Med  
Can J Microbiol  
Can J Physiol Pharmacol  
Cann J  
Cann Trade  
Carbohydr Res  
Caryologia  
Cell Differ  
Cell Immunol  
Cell Mass Inst Technol  
Cell Tissue Res  
Ceres  
Chem Biol Interactions  
Chem Chem Ind  
Chem Ind (Lond)  
Chem Listy  
Chem Senses Flavor  
Chem Soc Rev  
Chem Weekbl Tijdschr  
Chemosphere  
Chicago Sun-Times  
Children  
Chromosoma  
Cienc Cult Soc Bras Para Progr Cienc  
Circ Clemson Univ Coop U S Dep Agric  
Ext Serv  
Circ Coop Ext Serv Coll Agric Univ Ill  
Circ Ill State Geol Surv  
Circ N C Agric Ext Serv  
Circ Wash Agric Exp Stn  
Citrograph  
Citrus Ind  
Citrus Veg Mag  
Clays & Clay Miner  
Clin Biochem  
Clin Vet  
Collect Czech Chem Commun  
Commun Soil Sci Plant Anal  
Comp Biochem And Physiol  
Compost Sci  
Cooking for Profit  
Cornell Vet  
Cotton Dev  
Crop Sci  
Crops Soils  
CSD Food Agric Organ U N  
Cuban J Agric Sci  
Curr Sci  
Cytobiologie  
Dairy Farmer  
Dairy Herd Manage  
Dairy Ind  
Dairy Year Book  
Dan Erhvervsfjerkrae  
Dan Pelsdyrav  
Dan Skovforen Tidsskr  
Dental Clinics North Amer  
Dep State Bull U S Dep State  
Det Nye Dan Landbrug  
Dev Biol  
Dev Econ  
Dev Grow Differ  
Dokl Akad Nauk SSSR  
Dokl Akad Nauk Tadzh SSR  
Dokl Akad Nauk UzSSR  
Dokl Vses Akad S-kh Nauk  
Drobnarstwo  
Dtsch Agrarteich  
Dtsch Lebensm Rundsch  
Dtsch Molk Ztg  
Dtsch Tierarztebl  
E S M Ohio State Univ Dep Agric Econ  
Rural Sociol  
Ecol Food Nutr  
Ecol Monogr  
Ecol Res Ser EPA U S Environ Prot  
Agency  
Ecology (Durham)  
Econ Agric  
Econ Mark Inf Mo Agric Dep Agric  
Econ Coop Ext Serv Univ Mo  
Einzelbericht Forschungsges Agrarpolit  
Agrarsociologie Bonn  
Ekon Sel'sk Khoz  
Elemez Ipar  
EM Coop Ext Serv Coll Agric Wash  
State Univ  
Endocrinology  
Eng Ext Ser Purdue Univ  
Eng Res Bull Div Eng Res La State Univ  
ENT Univ Ky Coll Agric Coop Ext Serv  
Entomol News  
Entomol Tidsskr  
Entomol Z  
Entomophaga  
Environ Lett  
Environ Monit Ser EPA U S Environ  
Prot Agency  
Environ Pollut  
Environ Prot Technol Ser EPA U S  
Environ Prot Agency  
Environ Res  
ERFA (Erdogazdasag Faipar)  
Ergeb Physiol  
ERS U S Dep Agric Econ Res Serv  
Eur J Biochem  
Eur J For Pathol  
Eur J Pharmacol  
Europ J Immunol  
Exp Agric  
Exp Cell Res  
Exp Husb  
Exp Mol Pathol  
Experientiae  
Exploit Agrar  
Ext Bull Coop Ext Serv Agric Exp Stn N  
D State Univ  
Ext Bull Dep Agric South Aust  
Ext Bull E Coop Ext Serv Mich State  
Univ  
Ext Bull Md Univ Coop Ext Serv  
Ext Circ Agric Ext Serv Univ Del  
Ext Circ Ext Serv Oreg State Univ  
Ext Circ Univ R I Coop Ext Serv  
Ext Fol Agric Ext Serv Univ Minn  
Ext Serv Res U S Dep Agric  
Ext Stud Pa State Univ Ext Serv  
Fam Health  
Farm Econ (Pa State Univ)  
Farm Electr Handb  
Farm Fact  
Farm Food Res  
Farmers Rep Univ Leeds Sch Agric Sci  
Econ Div  
Farming Mech  
FAS U S Dep Agric Foreign Agric Serv  
Fauna Fenn Soc Fauna Flora Fenn  
Fauna Flora Pop Tidsskr Biol  
Fauna Flora (Pretoria)  
FDA Consumer  
FEBS Lett (Fed Eur Biochem Soc)  
Feed Situation  
Feedlot Manage  
Fert Solu  
Fette Seifen Anstrichm  
Fitopatologia  
Fiziol Zh SSSR  
Fla Entomol  
Fla Foliage Grow  
Flavour Ind  
Fleisch  
Fleischerei  
Fleischwirtschaft  
Flora Fauna  
Florists Rev  
FNS U S Dep Agric Food Nutr Serv  
Fol Coop Ext Serv Agric Exp Stn Mont  
State Univ  
Folia Biol (Praha)  
Folia For  
Folia Geobot Phytotoxon  
Folia Microbiol  
Folia Parasit  
Food And Nutr News  
Food Management  
Food Manuf  
Food Nutr  
Food Nutr Notes Rev  
Food Prod Dev  
Food Serv  
Food Technol  
For Comm Leaf (Lond)  
For Econ  
For Notes  
For Prod J  
For Prot (Tokyo)  
For Sci  
Forderungsdienst  
Forecast Home Econ  
Foreign Agric  
Foreign Agric Circ, Cocoa FCB (U S  
Dep Agric)  
Foreign Agric Circ, Cotton F C (U S  
Dep Agric)  
Foreign Agric Circ, Grains FG, U S Dep  
Agric Foreign Agric Serv  
Foreign Agric U S Foreign Agric Serv  
Foret (Neuchat)  
Forsk Prakt  
Forstl Forsogsvaes Dan  
Forstl Mitt  
Forsttech Inf  
Fragm Faun Pol Akad Nauk Inst Zool  
Freshwater Biol  
Frugivores  
Fruits & Abelles  
Ga Agric Res  
Ga Vet  
Gartenbau  
Gartneryekt  
Gaz Chim Ital  
Gen And Comp Endocrinol  
Gen Tech Rep PSW Pac Southwest For  
Range Exp Stn USDA For Serv  
Genet Res  
Genet Slechteni  
Genetika  
Geoderma  
Gesunde Pflanz  
Givaudan Flavor  
Glas Priir Muz Beogr, Ser B Biol Nauke  
Glean Bee Cult  
Glimpses in Plant Research  
Gossumvardhana  
Grana  
Grasas Aceites  
Ground-Water Levels N M  
Grune  
Haven  
Health Phys  
Health Serv Rep  
Helv Chim Acta  
Hereditas  
Heredity  
Heredity (Tokyo)  
Histochemie  
Hoards Dairyw  
Holz Roh Werkst  
Holzforschung  
Holztechnologie  
Hoppe Seylers Z Physiol Chem  
Hortic News (N J State Hortic Soc)  
Horticulture  
Hospital Prog  
Husdjur  
Hydrobiologia  
I I R B (Inst Int Rech Better)  
IAWA Bull (Int Assoc Wood Anat)  
Idaho Agric Res Prog Rep  
Idaho Curr Inf Ser  
Imkerfreund  
Immunochimistry  
Immunology  
In Apomikticheskoe Razmnnozhenie i  
Geterozis  
In Biologicheskije osnovy formirovaniia  
runa  
In Economic Cooperation in the Western  
Pacific  
In Economic Development and Planning  
Selected Studies. T. Foldi, ed.  
In Environmental Quality and Food  
Supply. P. L. White & D. Robbins,  
eds.  
In Hormonal Proteins and Peptides,  
Choh Hao Li, ed.  
In Kmecki punti na Slovenskem  
Razprave in Katalog Dokumentov  
In Kombikorma v Zhivotnovodstve  
In Partners for Progress  
In Uchebnaia robota v  
sel'skokhoziaistvennykh tekhnikumakh  
In Wastes—Solids, Liquids and Gases  
In Zashch Lesa  
Ind Conserv  
Ind Leche  
Ind Saccarif Ital  
Indian Bee J  
Indian Farming  
Indian J Biochem  
Indian J Chem  
Indian J Exp Biol  
Indian J Mycol Plant Pathol  
Indian J Nutr Diet  
Indian J Pharm  
Indian J Poult Sci  
Indian J Weed Sci  
Indian Vet J  
Indus & Welfare Catering  
Inf Agric (Paris)  
Inf Bull, Coop Ext, Coop Ext, N Y State  
Coll Agric Life Sci  
Inf Bull: Tech Rep, Int Union Pure Appl  
Chem  
Inf Conf Cursos Reun I I C A (Interam  
Inst Cienc Agric)  
Inf Rep M-X Marit For Res Cent  
(Frederection N B)  
Inf Sobre Grasas Aceites  
Inf Tech (Paris)  
Infect Immun  
Informasjon Skogind Okon Inst  
Inst Prod Florestaia Cortica  
Insti/vol Feeding  
Instrucces Prat Inst Technol Aliment  
Int Arch Allergy Appl Immunol  
Int Holzmarkt  
Int J Biochem  
Int J Parasitol  
Int J Vitam Nutr Res  
Int Rev Gesamten Hydrobiol  
Int Z Landwirtsch  
Invest Inf Text Tens  
Iowa State J Res  
Iowa State Univ Vet  
Ir Beekoop (An Beacaire)  
Ir Vet J  
Isotopenpraxis  
Italy Doc Notes  
Izv Akad Nauk Kirg SSR  
Izv Akad Nauk, Ser Georg  
Izv Akad Nauk Tadzh SSR  
Izv Bot Inst  
Izv Bul Akad Nauk Zool Inst Muz  
Izv Mikrobiol Inst (Sofia)  
Izv Vyssh Uchebn Zaved, Teknol Tekst  
Prom-st  
Izv Zool Inst Muz  
J Agric Food Chem  
J Agric Soc (Aberystwyth)  
J Agric South Aust  
J Agric Tasman  
J Agric Trop Bot Appl  
J Am Diet Assoc  
J Am Oil Chem Soc  
J Am Soc Hortic Sci  
J Am Vet Med Assoc  
J Amer Med Assoc  
J Anim Sci  
J Appl Chem  
J Appl Physiol  
J Arnold Arbor  
J Bacteriol  
J Bioenerget  
J Biol Chem  
J Bromel Soc  
J Can Diet Assoc  
J Cell Biol  
J Cell Sci  
J Chem Educ  
J Chem Soc, Perkin Trans I  
J Chem Soc, Perkin Trans II  
J Chromatogr  
J Chromatogr Sci  
J Clin Invest  
J Comp Pathol  
J Comp Physiol  
J Dairy Res  
J Dairy Sci  
J Endocrinol  
J Environ Qual  
J Exp Bot  
J Exp Zool  
J Ext  
J Fac Agric Kyushu Univ  
J Food Sci  
J For Suisse  
J Gen Microbiol  
J Gen Physiol  
J Histochem Cytochem  
J Hokkaido For Prod Res Inst  
J Home Econ  
J Hyg  
J Immunol Methods  
J Inst Brew  
J Invertebr Pathol  
J Jap Vet Med Assoc  
J Kans Entomol Soc  
J Lipid Res  
J Milk Food Tech  
J Mol Biol  
J Nutr Educ  
J Org Chem  
J Parasitol  
J Pharm Soc Jap  
J Phycol  
J Physiol  
J Polym Sci, Part C Polym Symp  
J Range Manage  
J Reprod Fertil  
J Res Haryana Agric Univ

- J Res Punjab Agric Univ  
J Res U S Geol Surv  
J Rural Life Soc Jap  
J Sch Health  
J Sci Food Agric  
J Sci Ind Res  
J Small Anim Pract  
J Soc Dairy Technol  
J Soil Conserv Serv N S W  
J Soil Water Conserv  
J Suisse Apicul  
J Timber Dev Assoc India  
J Trop Pediatrics Environ Child Health  
J Virol  
J Wash Acad Sci  
J Water Pollut Control Fed  
Jap J Appl Entomol Zool  
Jap J Sanit Zool  
Jap J Vet Sci  
Jap J Zootech Sci  
Jap Poul Sci  
JNKVV Res J (Jarwarharlal Nehru Krishi Vishwa Vidyalaya)  
Jordbruksekonn Medd  
Jordbruksskatterellen Sverig  
Jordbruksskattereb  
Jugosl Vocar  
Kajian Vet (Malaysia Singapore)  
Kakteen Sukkulenten  
Kalikasan Philipp J Biol  
Kalmars Hushallningssallsk Tidscr  
Kern Crop Inf Univ Calif Agric Ext Serv  
Kitchen Planning  
Kleintier Prax  
Kolloid Z  
Konchu  
Krmiva  
Ky AgriBus Spotlight Ky Univ Coop Ext Serv  
La Rural Econ  
Lab Anim Unimst Bus Publ (N Y)  
Lance  
Land Resour Study G B Dir Overseas  
Land Resour Div  
Landsarbeit  
Landbo Nyl  
Landbouwmechanisatie  
Landwirtschaft Forsch Sonderh  
Landmannen  
Leaf Div Agric Sci Univ Calif Calif  
Agric Exp Stn Ext Serv  
Leaf Coop Ext Serv Univ Arkansas Div Agric  
Leaf Coop Ext Serv Univ Ga Coll Agric  
Leaf U S Dep Agric  
League Int Food Educ  
Leben Erde  
Lebensm Prax  
Lepidoptera  
Lesn From St  
Lesn Zh Izv Vyssh Uchebn Zaved  
Lesnicv  
Levende Nat  
Libr List Natl Agric Libr U S Dep Agric  
Life Sci  
Light Gard  
Limnol Oceanogr  
Lipids  
Lloydia  
Lond Nat  
Longwood Program Semin  
LSU For Notes  
LWT (Lebensmitt Wissensch Technol)  
M P Arkansas Univ Coll Agric Ext Serv (Misc Publ)  
Matoloushallinnon Aikak  
Maelkentidende Udgivnt Dan Meierist Foren  
Magon Publ Ser Sci  
Magy Allatorv Lapja  
Magy Kem Lapja  
Magy Mezogazd  
Magy Textiltech  
Maharashtra Cooper O  
Maharashtra Vidnyan Mandir Patrika  
Makromol Chem  
Malay Agric  
Malay For  
Manedovers Plantesygd  
Mar Biol  
Mark Bull U S Dep Agric  
Mark Transp Situation  
Materialsamml Agrarsoz Ges  
Math Biosci  
Md Poultryman  
Mech Leaf Farmers Grow  
Med Insight  
Med Parazitol Parazit Bolezn  
Med Water  
Medd Landokon Driftsbur (Kobenh)
- Meded Overdrukken Landbouw Econ Inst  
Medlemsbl Dan Dyrlaegeforen  
Mejerbruget Uge-Nyt  
Melandria  
Meld Nor Landbrukshogsk  
Mem Gouv Que Minist Terres Forets  
Serv Rech  
Mem Inst Butantan  
Mem Queensl Mus  
Memo Niger Dep Agric Res  
Memo Nor Landbrukshogsk Inst  
Driftslare Landbrukssokom  
Metsantuntimslait Julk  
Mex Agric  
Mex For  
Mex Sus Bos  
Mezograd Tech  
Mich Farm Econ  
Mikrobiol Zh  
Mikrokosmos  
Milchwirtschaft Ber Bundesanst  
Wolfpassing Rotholz  
Milk Ind  
Milling  
Minn Agric Econ  
Minn For Res Notes  
Minn Sci  
MIRINZ Meat Indus Res Inst N Z  
Misc Publ Mont Agric Exp Stn Mont State Univ  
Mitt DLG (Dtsch Landwirtschaft Ges), Ausg A  
Mitt Entomol Ges Basel  
Mitt Obstbauversuchsanst Alten Landes  
Mitt Schweiz Anst Furdas Forstl Versuchswes  
Mitt Schweiz Landwirtschaft Mod Hospital  
Modern Schools  
Mol Gen Genet (MGG)  
Molochn Prom St  
Mon Bull Bermuda Dep Agric Fish  
Monats Veterinarmed  
Monogr Am Phytopathol Soc  
MP Tex A M Univ Tex Agric Exp Stn  
MP Vt Agric Exp Stn Univ Vt  
Mushroom J  
Mutat Res  
N D Res Rep  
N M Ext News  
N Z J Agric  
N Z J Dairy Sci Technol  
N Z J Sci  
N Z Vet J  
N Z Wheat Rev  
Na Okika O Hawaii (Hawaii Orchid J)  
Nahrung  
Nat Hist  
Nat Res J  
Natf Food Situation  
Natf Wool Grow  
Naturalist  
Nature  
Naturwissenschaften  
Naturhist Maanbl  
Nauch Dokl Vyssh Shk, Biol Nauk  
Nematologica  
Neth J Agric Sci  
Neth J Plant Pathol  
Neth J Zool  
Neuroendocrinology  
New Engl J Med  
New Sci (London)  
News Farmer Coop  
News Assoc Off Seed Anal  
News Indian Soc Nucl Tec Agric Biol  
Ninth Dist Exponent Fed Reserve Bank  
Minnep  
Niwarito-no-kenkyu Nowatori No  
Kenkyusha (Poult J Poult Res Assoc)  
Nogyo Giijutsu  
Nor Hagedit  
Nor Landbruk  
Nor Skogbruk  
Nor Skogind  
Nord Hydrol  
Nord Mejeritidsskr  
Norin Kinyu (Mon Rev Agric For Fish Financ)  
North Log Timber Process  
Not Entomol  
Not Neosan  
Note Tech Cent Tech For Trop  
Nouv Avic  
Nova Sist Vyssh Res Akad Nauk SSSR  
Nova Hedwig  
Now  
Nowe Roln
- NR Technol Malays Rubber Prod Res Assoc  
Nutr News  
Nutr Newsllett  
Nutr Notes (United Fresh Fruit & Veg Assn)  
Nutr Program News  
Nutr Rep Int  
Nutr Today  
Obesity/bariatric Med  
Oecologia  
Ohio Rep Res Dev Agric Home Econ  
Nat Resour  
Okhr Pri Mold  
Ontogenez  
Opera Bot  
Orchard N Z  
Orchid Dig  
Oreg Agri Rec  
Osteuropastud Hochsch Landes Hassen, Reihe I, Giessner Abh Wirtsch Europ Ostens  
OSU Ext Facts (Okla State Univ)  
P R Tex Agric Exp Stn Coll Stn  
PA U S Dep Agric  
Pacht  
Pag Bull  
Pak Cottons  
Panpac Entomol  
Pap Puu  
Papier  
Parasitica  
Parazitologia  
Pastor Rev  
PB Natl Tech Inf Serv Commer  
Pchelarstvo  
Pchelovodstvo  
Peanut Farmer  
Pediatric Annals  
Pedobiologia  
Personnel J  
Pesqui Agropecu Bras, Ser Agron  
Pest Control  
Pest Control Circ Sunkist Grow  
Pestic Sci  
Pesticides  
Pflanzenschutzberichte  
Pflugers Arch  
Phillip J Sci  
Phospho Potas  
Photogramm Eng  
Phycologia  
Physiol Behav  
Physiol Plant  
Phytochemistry  
Phytoma  
Phyton  
Phytoparasitica  
Pittieria  
Plant Cell Physiol  
Plant Med Phytother  
Plant Prot Bull (Rome)  
Plant Sci Bull  
Plant Soil  
Planta  
Plants Gard  
PM Coop Ext Serv Iowa State Univ  
PNW Bull (Pac Northwest Coop Ext)  
Pochvedeniye  
Pol Arch Weter  
Poljopr Znan Smotra  
Pomol Fr  
Postgrad Med J  
Potato Res  
Poult Guide  
Poult Notes N S W Dep Agric  
Poult Patter Agric Ext Serv Univ Minn  
Poult Pointers  
Prakt Landbruk  
Prakt Schandrigbekampf  
Prakt Tier  
Prer Biochem  
Presla  
Prikl Biokhim Mikrobiol  
Proc Annu Conv Neb State Irrig Assoc  
Proc Biol Soc Wash  
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Proc Natl Acad Sci U S A  
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Proc Soc Exp Biol Med  
Process Biochem  
Prod Agric Fr  
Prod Res Rep Agric Res Serv U S Dep Agric  
Prof Geogr  
Prof Nutritionist  
Prog Agric Ariz  
Prog Med Virol  
Prog Rep Ohio Dep Nat Resour Div  
Lands Soil  
Prog Rep Pa State Univ Agric Exp Stn  
Prog Rep Univ Ky Coll Agric Exp Stn  
Sin Dep Agron  
Przegl Mlecz  
Przegl Zboz Mlyn  
Pub (Manit Dep Agric)  
Publ Agric Can  
Publ Dep Environ Can For Serv  
Publ Ext Div Va Polytech Inst State Univ  
Publ Inst Landbouwbedr (Wageningen)  
Publ Inst Land Reclam Improv  
Publ Landbouw Econ Inst Afd Bedr  
Onderz Landbouw  
Publ Landbouw Econ Inst Afd Streekonderz  
Publ Misc Univ P R Recin Mayaguez  
Col Cienc Agric Estac Exp Agric  
Poult Proefstn Groenten Fruitteelt Onder Glas  
Publ Punjab (Pakistan) Board Econ Inq  
Pulpwood Annu  
Q J For  
Q Rev Agric Econ  
Quest Geobiol  
Qual Publ Malt Barley Improv Assoc  
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Queensl J Agric Anim Sci  
Query File Commonw Bur Horticult Plant Crops  
Quick Frozen Foods  
R T I A (Rev Tech Econ Ind Aliment)  
Rad Sumar Fak Inst Sumar Sarajevo  
Radiat Bot  
Radiat Res  
Radiobiologia  
Rapp Proefstn Rundveehouderij  
Rasen Turf/Gazon  
Rassenber IVRO Wageningen (Inst Rassenonderz Landbouwgewassen)  
Rasteniaved Nauk  
Refu Vet  
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Rep Agric Exp Stn Univ Ariz  
Rep Hill Farming Res Organ  
Rep Invest State Fla Dep Nat Resour  
Div Inter Resour Bur Geol  
Rep Serv Eur Mediterr Plant Prot Organ  
Rep Tottori Mycol Inst  
Rep Univ Conn Inst Water Resour  
Rep Univ N S W Water Res Lab  
Res Bull Coll Exp For Hokkaido Univ  
Res Bull Hokkaido Natl Agric Exp Stn  
Res Bull Univ Ga Coll Agric Exp Stn  
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Agric Exp Stn  
Res Circ Ohio Agric Res Dev Cent  
Res Mem Cotton Res Corp  
Res Now Agric  
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Rev Assoc Argent Criad Cerdos  
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Rev Etud Coop  
Rev Fac Agron, Medellin  
Rev Ferment Ind Aliment  
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Rev Mycol  
Rev Nuc Agric  
Rev Palaeobot Palynol  
Rev Roum Biochim  
Rev Theobroma  
Rev Vet Can  
Rev Vet Venez  
Rev Vin Fr, Engl Lang Ed  
Rheinische Bienenzeitg  
Rhizobium News  
Rhod Vet J



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

Rhodora  
 Ringyo Gijitsu For Tech  
 Riv Ital Sost Grasse  
 Riv Zootec Vet  
 Rocz Nauk Roln, Ser A Prod Rosl  
 Rocz Nauk Roln, Ser B Zootech  
 Rocz Nauk Roln, Ser C Tech Roln  
 Rocz Panstw Zakl Hig  
 Rocz Technol Chem Zwyn  
 Rostl Vyroba  
 Rural India  
 S Afr J Anim Sci  
 S Afr Sugar J  
 Sakhi Prom-st'  
 Sanchi Kenkyu Acta Sericol  
 Sb UVITI, Melior Cesk Akad Zemed  
 (Ustav Vedeckotech Inf)  
 Sb UVITI, Ochr Rostl Cesk Akad Zemed  
 (Ustav Vedeckotech Inf)  
 Sch Bus Affairs  
 Sch Foodserv J  
 Schriften Land Sozialfragen  
 Schweiz Arch Tierheilkd  
 Schweiz Landtech Dtsch Ausg  
 Schweiz Z Obst Weinbau  
 Sci Agric Bohemoslov  
 Sci Am  
 Sci Bull Coll Agric Univ Ryukyus  
 Okinawa  
 Sci Bull Fac Agric Kyushu Univ  
 Sci Cult  
 Sci Pap Coll Gen Educ  
 Sci Rep Tokyo Kyoiku Daigaku Sect C  
 Geogr Geol Mineral  
 Sci Rev  
 Science  
 Scott For  
 Sea Grant S G Oreg State Univ Mar  
 Adv Program  
 Seed Sci Technol  
 Sel Semenovod (Mosk)  
 Shokubutsu Boeki  
 Short Term Leaf Minist Agric Fish  
 Food (Middlesex)  
 Silva Fenn  
 S-kh Biol  
 Skogen  
 Skogsbruket  
 Smaskrift Landbruksdep  
 Opplsyningsjtenesten (Norway)  
 Socioecon Environ Stud Ser EPA- US  
 Environ Prot Agency Off Res Dev  
 Sociol Hist Zemed  
 Sociol Ruralis  
 Soobshch Akad Nauk Gruz SSR  
 South Indian Hortie  
 Sov Genet  
 Sov J Dev Biol  
 Soybean Dig  
 Soz Forstwirtschaft  
 Spec Rep Oreg State Univ Agric Exp Stn  
 Spis Bulg Akad Nauk  
 Stain Technol  
 Stat Bull U S Dep Agric  
 Stat Rep World Agric Prod Trade  
 State For Notes Calif Div For  
 Steroids  
 Stikstof ('S Grav)  
 Stud For Suec  
 Stud Inf, Lesn  
 Stud Inf, Zakl Vedy Zemed  
 Subtrop Kul't  
 Sucoienta  
 Sudan J Vet Sci Anim Husb  
 Suom Elainlaakari  
 Sven Frotidn  
 Sven Papperstidn  
 Sver Skogvardsforb Tidsskr  
 Svinskotse  
 Symp Br Soc Parasitol  
 SYR Inf (Sver Yrkesfruktodl Riksforb)  
 Syst Zool  
 Tabakpflanz Osterr  
 TAG (Theor Appl Genet)  
 Tappi (Tech Assoc Pulp Paper Ind)  
 Tea Q (Ceylon)  
 Tech Bull Agric Exp Stn Univ Ariz  
 Tech Bull Agric Res Serv U S Dep Agric  
 Tech Bull ASPAC Food Fert Technol  
 Cent (Asian Pac Council)  
 Tech Bull Dep Nat Resour (Madison)  
 Tech Lait  
 Tehnol Mesa  
 Tek Smaskr NTI (Nor Trektek Inst)  
 Terra  
 Tetrahedron  
 Tetrahedron Lett  
 Text Res J  
 Theriogenology  
 Tidsskr Biavl  
 Tidsskr Landokon  
 Tidsskr Plant  
 Tierarztl Umsch  
 Tierzucht  
 Tierzuchter  
 Tijdschr Diergeneesk  
 Today's Educ  
 Today's Health  
 Tohoku J Agric Res  
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 Toxicol Appl Pharmacol  
 Toxicol Environ Chem Rev  
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 Tree Ring Bull  
 TSiologia  
 Typtehouseur Julk  
 U S D A For Serv Res Pap FPI  
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 Dep Agric Northeast For Exp Stn)  
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 U S Dep Agric Southeast For Exp Stn  
 U S Dep Agric Econ Res Serv WMC  
 U S For Serv Res Note RM (Rocky Mt  
 For Range Exp Stn)  
 U S For Serv Res Note S#o (South For  
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 Ugeskr Agron  
 Ukr Bot Zh  
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 Univ Calif Publ Geol Sci  
 Urban Health  
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 USDA For Serv Gen Tech Rep PNW Pac  
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 Agric  
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 Informationsdienst  
 Versl Landbouwk Onderz Cent  
 Landbouwpubl Landbouwdoc  
 Verslagenreeks K Ned Zuivelbond F#nz  
 Vestn Akad Nauk Kaz SSR  
 Vestn Cesk Spol Zool  
 Vestn Leningr Univ Biol  
 Vestn Moskovsk Univ, Biol Pochvoved  
 Vestn Moskovsk Univ, Geogr  
 Vestn S-kh Nauki (Mosc)  
 Vet Arh  
 Vet Econ  
 Vet Glas  
 Vet Med Nauki  
 Vet Med (Prague)  
 Vet Rec  
 Veterinaria (Madr)  
 Veterinaria (Sarajevo)  
 Vida Rural  
 Vierteljahrsschr Naturforsch Ges Zurich  
 Virch Arch, B Zellpathol  
 Virology  
 Visn Sil'skohspod Nauki  
 VM SAC (Vet Med Small Anim Clin)  
 Vopr Virusol  
 W H O Tech Rep Ser  
 Water Res  
 Water Wastes Eng  
 Weight Watchers  
 Wet Meded K N N V (K Ned Naturhist  
 Ver)  
 What's New Home Econ  
 Whats New Plant Physiol  
 Wiad Ekol  
 Wiad Inst Melior Uzytkow Zielen  
 Winzer  
 Wood Sci For Prod Res Soc (Madison)  
 Wood Wood Prod  
 Wool Technol Sheep Breed  
 World Crops  
 World Wood  
 Worlds Poult Sci J  
 Z Allg Mikrobiol  
 Z Angew Entomol  
 Z Ernahrungswiss  
 Z Kulturtech Flurbereinig  
 Z Lebensm Unters Forsch  
 Z Med Mikrobiol Immunol  
 Z Morphol Tiere  
 Z Parasitenkd  
 Z Pflanzenernahr Bodenkd  
 Z Pflanzenphysiol  
 Z Tierphysiol Tierernahr Futtermittelkd  
 Zemet Sist Geogr Rast Akad Nauk Gruz  
 SSR Tbilis Bot Inst  
 Zashch Rast  
 Zb Biotehn Fak Univ Luublj  
 Zentralbl Bakteriolo Parasitenkd  
 Infektionsk Hyg, I Abt Orig, reihe A  
 Med Mikrobiol Parasitol  
 Zentralbl Bakteriolo Parasitenkd  
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 Hyg Prav Med  
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QH431.A1G43

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QH491.S66

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# INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

## CONTENT

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The Bibliography is now divided into nine sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, and a personal author index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

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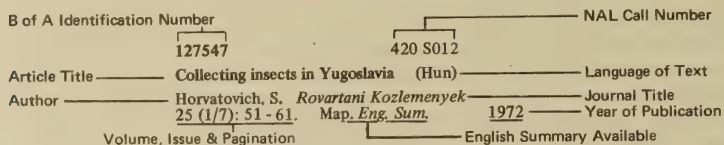


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(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



## MAIN ENTRY SUB-SECTIONS

Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications; State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries appear in The Main Entry Section as well as in the sub-sections.

## GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

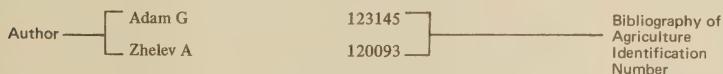
## CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



## AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



## AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

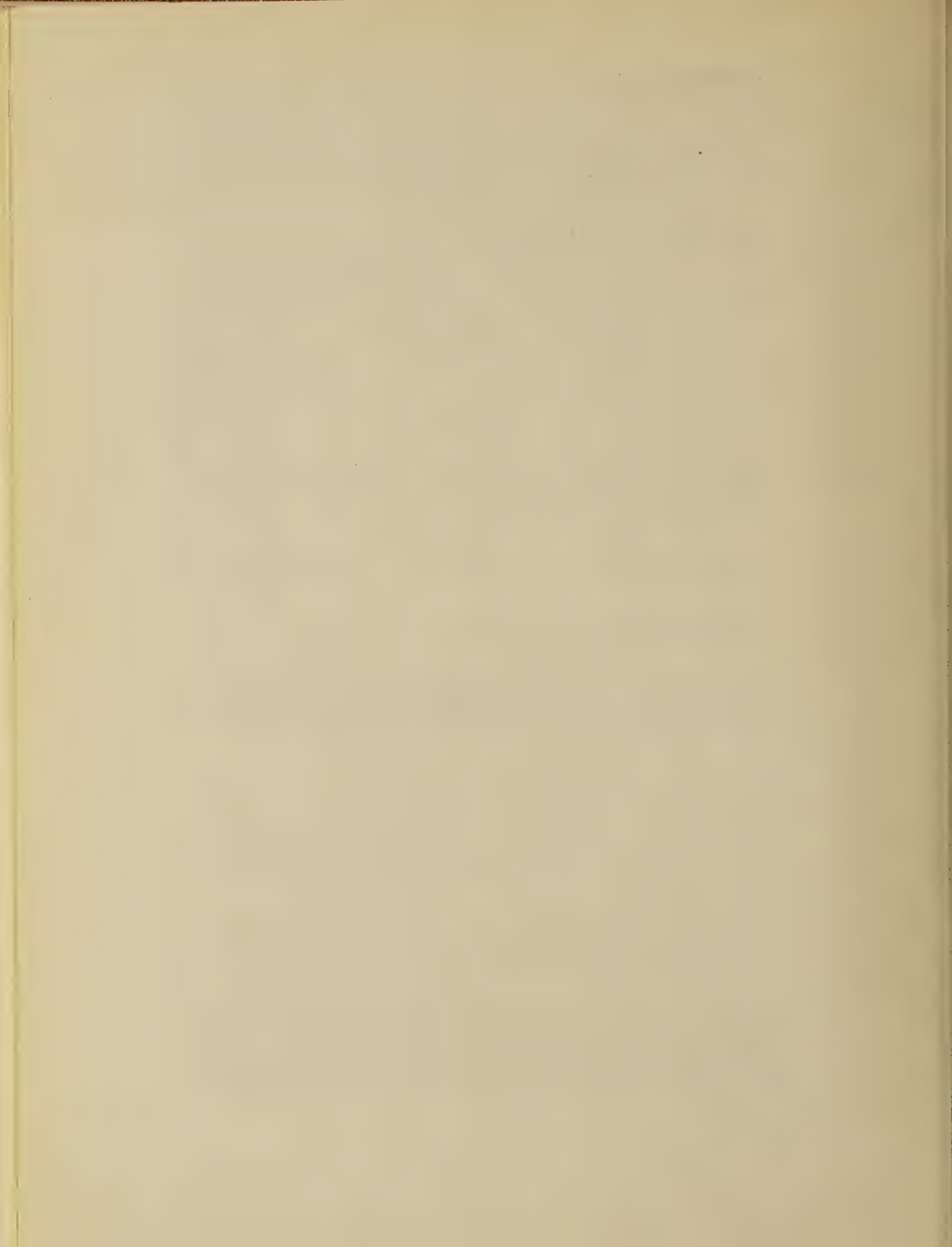
Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

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# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

A Coop Ext Programs Univ Wis	Agrokhiimia	Arch Gartenbau	Brauwissenschaft
A D C Teach Forum (Agric Dev Counc Inc)	Agrologist	Arch Gesamt Virusforsch	Brittonia
A E Coop Ext Serv Univ Ill Coll Agric	Agron Trop (Paris)	Arch Hydrobiol	Bryologist
Dep Agric Econ	Agroplantae	Arch Ital Anat Embriol	Bull A Ariz Univ Coll Agric Ext Serv
A E Pap Okla State Univ Dep Agric Econ	Alexanor	Arch Lebensm Hyg	Bull A S P S (Afr Suc Plant Soc)
A M A (Agric Mech Asia)	Algodon Mex	Arch Naturschutz Landschaftsforsch	Bull Agric Exp Stn Auburn Univ
Abelle Fr Apicul	Allg Dtsch Imkerztg	Arch Pharm (Berlin)	Bull Alberta Univ Dep Agric Econ Rural Sociol
Acad Agric Fr C R Seances	Am Camel Yearb	Arch Phytopathol Pflanzenschutz	Bull Assoc R Anc Etud Brass Univ Louvain
Acta Agron (Budap)	Am Fern J	Arch Tierernahr	Bull B Conn Agric Exp Stn
Acta Aliment	Am For	Arch Tierz	Bull Balai Penelitian Perkebunan Medan
Acta Anat	Am Fruit Grow	Arch Toxikol	Bull Chugoku Agric Exp Stn, Ser A
Acta Chem Scand Ser B Org Chem Biochem	Am J Anat	Arctic	Bull Coll Agric Vet Med Nihon Univ
Acta Med Vet	Am J Clin Nutr	Arkansas Agric Econ	Bull Colo State Univ Exp Stn Fort Collins
Acta Microbiol Pol, Ser B Microbiol Appl	Am J Nursing	Arkansas Farm Res	Bull Environ Contam Toxicol
Acta Morphol	Am J Physiol	Arnoldia	Bull Fac Agric Hirosaki Univ
Acta Pathol Microbiol Scand, Sect A Pathol	Am Nat	Arq Esc Vet (Bela Horizonte)	Bull Gov For Exp Stn (Tokyo)
Acta Pathol Microbiol Scand Suppl, Sect A And Or Sect B	Am Nursery	Arskr Nordjyll Landbrugssk Lundbaek	Bull INACOL (Inst Natl Amelior Conserves Legumes)
Acta Phytogeogr Suec	Am Orchid Soc Bull	ASCS Background Inf Bl (Agric Stab Conserv Serv)	Bull Inf CNEEMA (Cent Natl Etud Exp Mach Agric)
Acta Phytotaxon Barc	Am Potato J	Aust For Ind J	Bull Inf Rizic Fr
Acta Pruhonic	Am Sci	Aust J Agric Res	Bull Inst Agric Res Tohoku Univ
Acta Trop	Am Veg Grow	Aust J Bot	Bull Jap Soc Sci Fish
Acta Univ Agric, Fac Agroecoon	Am Vocational J	Aust J Chem	Bull Mens Soc Linn Lyon
Acta Univ Agric, Fac Agron	Amer Baby	Aust J Exp Agric Anim Husb	Bull Miss Agric For Exp Stn
Acta Univ Agric, Fac Silv	Amer J Clin Nutr	Aust J Plant Physiol	Bull Natl Grassl Res Inst
Acta Vet (Budap)	Amer School Board J	Aust J Soil Res	Bull Natl Sci Mus (Tokyo)
Acta Vet Scand	AMS U S Dep Agric Agric Mark Serv	Aust J Zool, Suppl Ser	Bull Off Int Epizoot
Acta Virol	An Col Of Vet Prov	Baromfiapar	Bull Pa State Univ Coll Agric Agric Exp Stn
Acta Vitaminol Enzymol	An Esc Super Med Vet	Baromfitenyestzes	Bull Sci Inst Text Fr
Acta Zool Cracov	An Inst Bot A J Cavanilles	Bauen Lande	Bull Shizuoka Prefect Citrus Exp Stn
Acta Zool Lillo	An Parques Nac Secr Estado Agric	Bedrijfsontwikkeling	Komagoe Shimizu City Jap
ADAS Q Rev (Agric Dev Advis Serv)	Ganad Nac Adm Nac Parques Nac	Belg Apic	Bull Soc Bot Fr
Adv Comp Physiol And Biochem	Repub Argent	Ber Dtsch Bot Ges	Bull Soc Chim Fr
Advis Leaff Minist Agric Fish Food (Edinb)	Anat Rec	Beret Forsogslab (Kobenh)	Bull Soc Entomol Fr
AERR Dep Agric Econ Agric Exp Stn Univ Ill Urbana Champaign	Angew Parasitol	Berl Munch Tierarztl Wochenschr	Bull Soc R For Belg
AFIDAD	Anim Blood Groups Biochem Genet	Biata, The Tillage Farmer	Bull State Ill Dep Regist Educ Ill State Water Surv
AFRI Res Rep N Y (State) State Univ Coll Environ Sci For Appl For Res Inst	Anim Breed	Biene	Bull Taiwan For Res Inst
Ag Econ Rep Dep Agric Econ Fla Agric Exp Stn Inst Food Agric Sci Univ Fla Gainesville	Anim Husb	Bienenpflege	Bull Tokai Reg Fish Res Lab
AGR Ky Univ Dep Agron	Anim Prod	Bienenvater	Bull Trimet Acad Soc Lorraines Sci
Agrartort Sz	Ann Agric Fenn	Bienenwelt	Bull Trimet Soc Mycol Fr
Agrartort Kozl	Ann Agron	Big Farm Manage	Bull Univ R I Coop Ext Serv
Agrarwirtschaft	Ann Appl Biol	Bijdr Diekd	Bull W H O
Agrekon	Ann Arid Zone	Biken J	Bull Water Resour Res Cent Va Polytech Inst State Univ
Agric Agroid J	Ann Bot	Biochem Genet	Bull Zool Mus Univ Van Amst Duvar
Agric Biol Chem	Ann Econ Soc Rurales Inst Natl Rech Agron	Biochem J	C R Acad Bulg Sci
Agric Econ Rep Econ Res Serv U S Dep Agric	Ann Entomol Soc (Quebec)	Biochem Physiol Pflanz BPP	C R Seances Soc Biol Fil Publ Concours Cent Natl Rech Sci
Agric Educ	Ann Inst Pasteur (Paris)	Biochemistry (Easton)	Cah Ing Agron
Agric Handb U S Dep Agric	Ann Ist Sper Zootec (Rome)	Biochim Biophys Acta	Cajanus
Agric Inf Bull U S Dep Agric	Ann Mo Bot Gard	Biochimie	Calcif Tissue Res
Agric Mark	Ann Parasitol Hum Comp	Biol Reprod	Calif Agric
Agric North Ire	Ann Pharm Fr	Biol Zh Arm	Calif Health
Agric Plann Stud	Ann S Afr Mus	Biologia, Ser A Bot	Calif Vet
Agric Res	Ann Tech Agric	Biologico	Calif West States Grape Grow
Agric Situation India	Ann Trop Med Parasitol	BioScience	Can Entomol
Agric Technol	Ann Zool Ecol Anim	Biotechnol Bioeng	Can J Agric Econ
Agrichem Age	Annals Intern Med	Biul Inst Hodowli Aklim Rol	Can J Bot
Agricole (Marches Agric)	Annot Zool Jap	Bois Forets Trop	Can J For Res
Agriculture (Paris)	Annu Prog Rep Oak Ridge Natl Lab Biol Div	Bol Inst Tecnol Aliment	Can J Microbiol
Agrochemophysica	Annu Rep Glasshouse Crops Res Inst	Bol Of Sanit Panam	Can J Public Health
Agrokem Talajtan	Annu Rep Radiat Cent Osaka Prefect Anu Soc Broter	Bol Soc Broter	Can J Zool
	Anz Schadlingskd Pflanzenschutz	Bol Soc Quim Peru	Cane Grow Q Bull
	APHIS-91 U S Anim Plant Health Insp Serv	Bol Tec Inst Florestal (Sao Paulo)	Cann J
	Apiacta	Bot Gaz	Carbohydr Res
	Apic Mod	Br J Nutr	
	Appl Entomol Zool	Br J Pharmacol	
	Arbor Leaves	Br Med J	
	Arch Environ Health	Br Poult Sci	
		Br Vet J	
		Brantweinwirtschaft	
		Bras Flores	
		Brauwelt	



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- Cattleman  
Cattleman  
CCP/CS/D/SR Food Agric Organ U N  
Ceiba  
Cell Differ  
Cell Tissue Res  
Cereal Sci Today  
Ceres  
Ceska Mykol  
Championn  
Chem Commun  
Chem Erde  
Chem Ind (Lond)  
Chem Pharm Bull  
Chem Tech (Berlin)  
Chem Weekbl  
Chesapeake Sci  
Chih-wu Hsueh-pao  
Chromosoma  
Chung Hua Chih Wu Pao Hu Hsueh  
Hui Plant Prot Bull  
Circ Agric Ext Serv Univ Arkansas Div  
Circ CIAB (Cent Invest Agric Bajio)  
Circ N C Agric Ext Serv  
Circ Wash Agric Exp Stn  
Citrograph  
Citrus Sub-Trop Fruit J  
Clin Chim Acta  
Clin Toxicol  
Collect Breed  
Commercial Kitchen & Dining Room  
Comp Biochem And Physiol  
Comp Gen Pharmacol  
Compact Fruit Tree  
Compost Sci  
Confect Prod  
Consultant  
Cooking for Profit  
Coop Econ Insect Rep  
Cornell Int Agric Dev Bull  
Cotton Dew  
Cotton Grow Rev  
Cow Moos  
Cranberries  
Crops Soils  
Cry Life  
Cuban J Agric Sci  
Cukoripar  
Cultivar  
Curr Sci  
Cytobiologie  
Dairy Counc Dig  
Dairy Ind  
Dan Bot Ark  
Dan Erhvervsferkrea  
Dan Pelsdyravl  
Dansk Kemi  
Darb, C Ser Biol Mokslaij Liet Tsr  
Mokslu Akad  
Darwiniana  
Def Veg  
Delt Agrot Trap  
Denpun Kagaku (J Jap Soc Starch Sci)  
Dep Inf Rep Texas A M Univ Dep  
Agric Econ Rural Soc  
Desarr Rural Am  
Det Nye Dan Landbrug  
Dev Biol  
Differentiation Res Biol Diversity  
Dokl Akad Nauk Az Ser  
Dokl Akad Nauk BSSR  
Dokl Akad Nauk SSSR  
Dokl Biochem  
Down Earth  
Drevo  
Driemaand Publ Belg Inst Ver  
Dtsch Lebensm Rundsch  
Dtsch Milchwirtschaft  
Dtsch Tierarztl  
DTW (Dtsch Tierarztl Wochenschr)  
E S M Ohio State Univ Dep Agric Econ  
Rural Sociol  
East Afr Agric For J  
Eco Inf Rep Dep Agric Econ Inst Agric  
Univ Minn  
Ecol Food Nutr  
Ecol Res Ser EPA U S Environ Prot  
Agency  
Econ Agric  
Egypt J Vet Sci  
Ekol Pol  
Ekologia (Sverdlovsk)  
Ekon Poljopr  
Ekon Sov Ukr  
Elelmaz Ipar  
Elelmiszerviz Kozl  
Ellenike Kteniari  
Empress Chinchil  
Entomol Exp Appl
- Entomol Mon Mag  
Entomol News  
Entomol Newsl Utah State Univ Ext  
Serv  
Entomol Obozr  
Entomol Rev  
Entomol Scand  
Environ Conserv  
Environ Lett  
Environ Prot Technol Ser EPA U S  
Environ Prot Agency  
Erdo  
ERFA (Erdogazdasag Faipar)  
Ernahrungswirtschaft  
ERS U S Dep Agric Econ Res Serv  
Eur J Biochem  
Eur J Pharmacol  
Exp Cell Res  
Exp Hortie  
Exp Parasitol  
Experientia  
Experientia  
Explos Hunger 1975  
Agriculture  
Explor Agrar  
Ext Bull Coop Ext Serv Agric Exp Stn N  
D State Univ  
Ext Bull Dep Agric South Aust  
Ext Bull E Coop Ext Serv Mich State  
Univ  
Ext Circ Coop Ext Serv Coll Agric Wash  
State Univ  
Ext Circ Ext Serv Oreg State Univ  
Ext Serv Rev U S Dep Agric  
FAO Fish Rep Food Agric Organ U N  
Farm Fact  
Farm J (Calcutta)  
Farm Mach  
Farm Real Estate Mark Dev  
Farskotsel  
FEDS Lett (Fed Eur Biochem Soc)  
Fed Register  
Feddes Report  
Feedlot Manage  
Feld Wald Wasser Schweiz Jagdzjt  
Fennia  
Fert News  
Fette Seifen Anstrichm  
Fieldiana Bot  
Financ Rep North Scotl Coll Agric Econ  
Econ Div Sch Agric Aberdeen  
Fiziol Biokhim Kult Rast  
Fiziol Rast (Mosk)  
Fla Entomol  
Fla Foliage Grow  
Flavour Ind  
Fleisch  
Fleischerei  
Fleischwirtschaft  
Florists Rev  
FNS U S Dep Agric Food Nutr Serv  
Folia Geobot Phytotaxon  
Food and Nutr News  
Food Management  
Food Nutr  
Food Nutr Notes Rev  
Food Process Ind  
Food Prod Dev  
Food Serv  
Food Technol  
Food Technol N Z  
Food Technol Rev  
For Chron  
For Prod J  
For Res Rep Agric Exp Stn Univ Ill  
For Timber  
Forecast Home Econ  
Foreign Agric  
Foreign Agric Circ, Grains FG, U S Dep  
Agric Foreign Agric Serv  
Foreign Agric Econ Rep U S Dep Agric  
Econ Res Serv  
Forsch Berat, Reihe C, Wiss Ber  
Diskussionsbeitr  
Forst Holzwirt  
Fortsschrittsber Landwirtschaft  
Nahrungswirtschaft  
Presentus Z Anal Chem  
Frugtavleren  
Fruit Var J  
Fruit World Mark Grow  
Fruits  
Fruits & Abeilles  
Fruticultura  
Gac Colmenar  
Gard J  
Gartnerkyet  
Gazdalkodas  
Gemuse  
Gen And Comp Endocrinol  
Genet And Plant Breed
- Genet Slechteni  
Genetics  
Geol Surv Prof Pap U S Dep Inter  
Geol Surv Water Supply Pap  
Serv  
Geotechnique  
Gesunde Pflanz  
Getreide Mehl Brot  
Gorteria  
Handel Zagr  
Hereditas  
Heredity (Tokyo)  
Histochem J  
Histochemie  
Hoards Dairy  
Holz Kunststoffverarbeitung  
Holzindustrie  
Home Econ Res J  
Hortic Res  
Hospitals  
Human Ecol Forum  
Human Relations  
Husipar  
Hydrobiol J  
I C A Informa (Inst Colomb Agropecu)  
Idaho Agric Res Prog Rep  
Iheringia, Ser Zool  
Ikoni Selskoto Stop  
Ill Vet  
Imkerfreund  
Immunology  
In American Poultry History 1823-1973,  
an Anthology Overview of 150 Years,  
People Places-Progress  
In Conservation in Practice. A. Warren  
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In Fundamentals of Dairy Chemistry. B.  
H. Webb, A. H. Johnson & J. A.  
Alford, eds.  
In Immunology of Reproduction  
Proceedings of the International  
Symposium  
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industrializatsii S-KH proizvod  
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Products. C. M. Christensen, ed.  
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ed.  
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Strategy Development. R. A. Gabriel &  
S. H. Cohen, eds.  
In the role of RNA in Reprod and Dev  
Proc of the AAAS Symp (American  
Association Advancement Science)  
In U S Agric in a World Context,  
Policies and Approaches for the Next  
Decade. D. G. Johnson & J. A.  
Schmittker, eds  
Ind Agrar  
Ind Aliment  
Ind Aliment Agric  
Ind Aliment (Bucur)  
Ind Lemnul  
Ind Obst Gemuseverwert  
Indian Cof  
Indian Farming  
Indian Hortie  
Indian J Agric Econ  
Indian J Agron  
Indian J Anim Health  
Indian J Biochem  
Indian J Nutr Diet  
Indian Poult Gaz  
Indian Silk  
Indian Sugar  
Indus & Welfare Catering  
Inf Fitopatol  
Inf Internes Agric  
Inf Tec Estac Exp Reg Agropecu  
Pergamino INTA (Inst Nac Tecnol  
Agropecu)  
Inf Tec INTA (Inst Nac Tecnol  
Agropecu Manfredi)  
Infect Immun  
Insects Soc  
Inst Prod Floresta Cortica  
Instit Distrib  
Instit/vol Feeding  
Instrucoes Prat Inst Technol Aliment  
Instructor  
Int Biodeterior Bull  
Int Holzmarkt  
Int J Biochem  
Int J Biometeorol  
Int J Fertl  
Int J Radiat Biol Relat Stud Phys Chem  
Med  
Int Sugar J  
Int Symp Fyotfarm Fytat  
Intervology
- Ir Vet J  
ISI Bull (Indian Stand Inst)  
Isr J Bot  
Issled Genet  
Izv Ser Ekon Akad Nauk SSSR  
J Agric Chem Soc Jap  
J Agric (Melb)  
J Agric Sci (Camb)  
J Agric South Aust  
J Agric Univ P R  
J Ala Acad Sci  
J Am Anim Hosp Assoc  
J Am Chem Soc  
J Am Diet Assoc  
J Am Leather Chem Assoc  
J Am Vet Med Assoc  
J Am Water Works Assoc  
J Amer Med Assoc  
J Anim Ecol  
J Appl Bacteriol  
J Appl Chem  
J Assoc Off Anal Chem  
J Aust Inst Agric Sci  
J Biochem (Tokyo)  
J Biol Chem  
J Cell Biol  
J Cell Physiol  
J Cell Sci  
J Chem Educ  
J Chem Soc, Perkin Trans I  
J Chem U A R  
J Chin Chem Soc  
J Chromatogr  
J Comp Physiol  
J Comp Physiol Psychol  
J Econ Hist  
J Embryol Exp Morphol  
J Entomol Soc B C  
J Environ  
J Evol Biochem Physiol  
J Exp Bot  
J Exp Zool  
J Ext  
J Fac Sci Hokkaido Univ, Ser V Bot  
J Fac Sci Hokkaido Univ, Ser vi Zool  
J Fish Res Board Can  
J Food Sci Tech  
J For  
J Gen Appl Microbiol  
J Gen Microbiol  
J Gen Virol  
J Hered  
J Histochem Cytochem  
J Hokkaido For Prod Res Inst  
J Home Econ  
J Hyg  
J Immunol  
J Ind Econ  
J Indian Chem Soc  
J Jap Bot  
J Jap Vet Med Assoc  
J Jap Wood Res Soc  
J Lepid Soc  
J Microsc (Paris)  
J Mol Biol  
J Nematol  
J Nutr  
J Nutr Educ  
J Nutr Sci Vitaminol  
J Org Chem  
J Parasitol  
J Pathol (Edinb)  
J Peasant Stud  
J Pediatrics  
J Pharm Soc Jap  
J Physiol  
J Prakt Chem  
J Protozool  
J Reg Sci  
J Reprod Fertil  
J Res Punjab Agric Univ  
J S Afr Bot  
J S Afr Vet Assoc  
J Sci Health  
J Sci Food Agric  
J Sci Soil Manure  
J Small Anim Pract  
J Soc Dairy Technol  
J Soil Sci  
J Stored Prod Res  
J Suisse Apicul  
J Taiwan Agric Res  
J Text Inst  
J Texture Stud  
J Theor Biol  
J Trop Pediatrics Environ Child Health  
J Ultrastruct Res  
J Wash Acad Sci  
J Water Pollut Control Fed  
J Wildl

- J Zool  
 Jaarversl Proefstn Rundveehouderij Jaar  
 Jahr Naturwiss Abt Landesmus  
 Joanneum Graz  
 Jap J Anim Reprod  
 Jap J Genet  
 Jap J Microbiol  
 Jap J Parasitol  
 Jap J Vet Res  
 Jap J Vet Sci  
 Jap J Zootech Sci  
 Jap Pestic Inf  
 Jarmuvek, Mezogazd Gepek  
 Jordbruksekon Medd  
 Justus Liebig's Ann Chem  
 Kaktien Sukkulente  
 Kalikasan Philipp J Biol  
 Kartoffelbau  
 Kasetsart J  
 Kemia-Kemi (Helsinki)  
 Kert Kut Intez Kozl  
 Kertgazdasag  
 Keurmeester  
 Kew Bull  
 Kiel Milchwirt Schaftl Forschungsber  
 Kitchen Planning  
 Kolloid Z  
 Kumamoto J Sci, Ser B, Sec 2 Biol  
 Kvasny Prum  
 Lab Invest  
 Lait  
 Land Econ  
 Land Res Ser Commonw Sci Ind Res  
 Org Aust  
 Landbo Nylt  
 Landbouwmecanisatie  
 Landbrukstidende  
 Landmasch Markt  
 Landtechnik  
 Landwirtsch Angew Wiss  
 Landwirtsch Forsch  
 Landbrukshgsk Medd, Ser A  
 Landbrukstidskr Dalarna  
 Lantmannen  
 Latv Entomol  
 LC (Listy Cukrov)  
 Leaf Coop Ext Serv Univ Arkansas Div  
 Agric  
 Leaf North Irel Adv Serv Minist Agric  
 Leopoldina  
 Lex Pri Nobel (Nobelstiftelsen  
 Stockholm)  
 Lesn Prom St'  
 Letzburger Beien Ztg  
 Libr List Natl Agric Libr U S Dep Agric  
 Life Sci  
 Lillioa  
 Livest Meat Situation  
 LSU For Notes  
 LSU Wood Util Notes (La State Univ)  
 Lucr Stint, Ser Agric Inst Agron Dr  
 Petru Groza Cluj  
 M A F E S Res Highlights (Miss Agric  
 For Exp Stn)  
 Maatalouden Taloud Tukimusalitoksen  
 Julk  
 Maelkeritidende Udgivet Dan Meierist  
 Foren  
 Malays Agric J  
 Malomipar Termenyoforgal  
 Man Precis Elev Inst Elev Med Vet Pays  
 Trop  
 Manpower  
 Mar Biol  
 Mark Res Rep Agric Econ Res Unit  
 Lincoln Coll  
 Mark Res Rep U S Dep Agric Econ Res  
 Serv  
 Mater Org  
 Md Agri-VIEWS  
 Md Poultryman  
 Mech Ageing Dev  
 Mech Roln  
 Mech Zemed  
 Med Insight  
 Med Parazitol Parazit Bolezni  
 Med Water  
 Medd Centralstyr Malmö Fors  
 Vaxtskydd  
 Medd Jordbruk Utredningsinst  
 Medd SLL (Statens Lantbrukskem Lab)  
 Medd Statens Forsogsvirksomhed  
 Plantekult  
 Meded Cent Onkruidonderz  
 Meded Inst Bio Eensheidk Onderz  
 Landbouwweg (Wageningen)  
 Medlemsbl Dan Dyrlegesforen  
 Medlemsbl Ostergotland Lands  
 Hushallningssallsk  
 Meheszet  
 Mejerbruget Uge-Nyt  
 Meld Nor Landbrukshgsk  
 Memo Nor Landbrukshgsk Inst  
 Driftslaere Landbruksokom  
 Memo Tec Sec Recurso Hidraul Dir  
 Gen Dist Riego Dir Estad Estud Econ  
 Mendeleev Chem J  
 Merkbl Biol Bundesanst Land  
 Forstwirtschaft  
 Mex Agric  
 Mex Dir Gen Dist Riego Inf Estad  
 Mezogazd Adatok Kozponti Statizukai  
 Hivatal  
 Microb Ecol  
 Microlepid Palaeart  
 Micronesia  
 Microscope  
 Mikrokosmos  
 Milchwissenschaft  
 Milk Ind  
 Milling  
 Mimeogr Ser Univ Arkansas Agric Exp  
 Stn  
 Minneliste Hagedyrk  
 MIRINZ Meat Indus Res Inst N Z  
 Misc Publ Commonw Inst Biol Control  
 Misc Publ U S Dep Agric  
 Misc Rep Life Sci Agric Exp Stn Univ  
 Maine Orono  
 Mitt Biol Bundesanst Land Forstwirtschaft  
 (Berlin-Dahlem)  
 Mitt Bot Staatssaml Munch  
 Mitt Bundesforschungsanst Forst  
 Holzwirtschaft  
 Mitt Geb Lebensmittelunters Hyg (Bern)  
 Mitt Schweiz Entomol Ges  
 Mitt Schweiz Landwirtsch  
 Mitt Schweiz Pappel Arbeitsgem  
 Mitt Zool Mus Berl  
 Mljekarstvo  
 Mod Dairy  
 Mod Farming  
 Modern Med  
 Mol Biol Rep  
 Mol Gen Genet (MGG)  
 Mol-Zig Welt Milch  
 Molochn Prom St  
 Mon Bull Bermuda Dep Agric Fish  
 Monasth Veterinarmed  
 Monogr Ann Phytopathol Soc  
 Mosq Syst News Lett  
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 Riv Patol Veg  
 Rocz Panstw Zakl Hg  
 Rocz Technol Chem Zywn  
 Rosl Vyroba  
 RTVA Rev Tech Vet Abattoirs Hyg  
 Aliment)  
 Rural India  
 Russ Chem Rev  
 S Afr J Sci  
 S Afr Sugar J



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

Sante Abeille	Trans Br Mycol Soc	Z Tierphysiol Tierernahr Futtermittelkd
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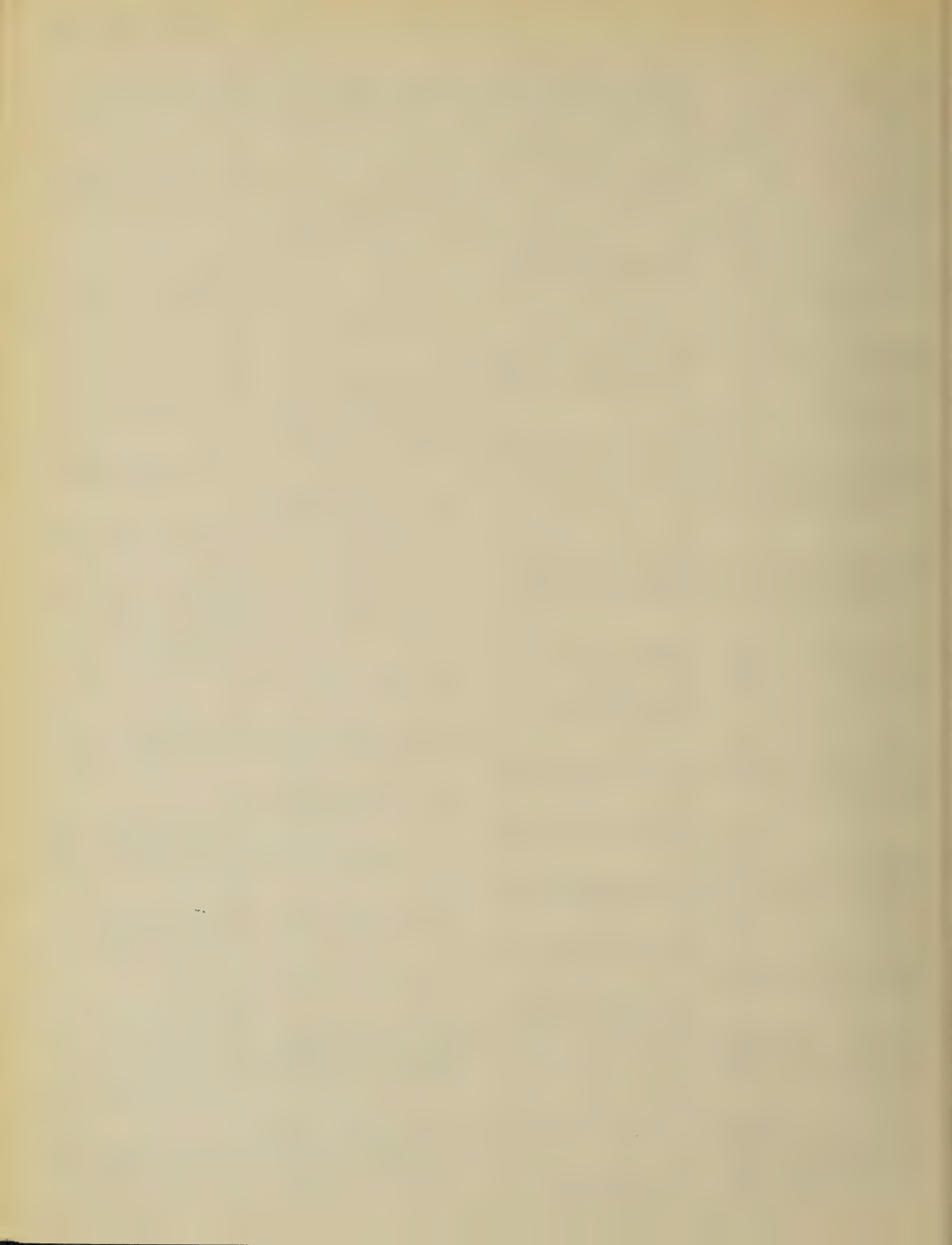
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# INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

## CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into nine sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, and a personal author index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

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The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

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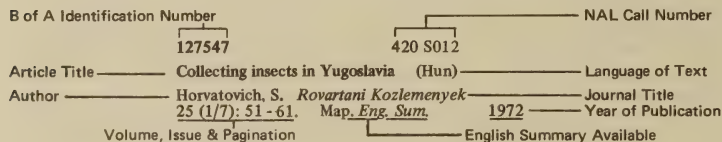


Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



## MAIN ENTRY SUB-SECTIONS

Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications; State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries appear in The Main Entry Section as well as in the sub-sections.

## GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

## CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.

Corporate Author	Hawaii University. Cooperative Extension Service	010221	Bibliography of Agriculture Identification Number
	Louisiana. Rice Experiment Station	007596	

## AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.

Author	Adam G	123145	Bibliography of Agriculture Identification Number
	Zhelev A	120093	

## AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	\$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	\$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.





# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

A Coop Ext Programs Univ Wis  
A E Ext Dep Agric Econ N Y State Coll  
Agric Contract Coll State Univ Cornell  
Univ  
Abeille Fr Apicul  
Acad Agric Fr C R Seances  
Acrida  
Acta Agric Scand  
Acta Agron (Budap)  
Acta Biol Cracov, Ser Bot  
Acta Bot Neerl  
Acta Endocrinol  
Acta Entomol Sinica  
Acta For Fenn  
Acta Histochem  
Acta Hortie  
Acta Leiden  
Acta Microbiol  
Acta Pathol Microbiol Scand, Sect A  
Pathol  
Acta Pathol Microbiol Scand, Sect B  
Microbiol Immunol  
Acta Pathol Microbiol Scand Suppl, Sect  
A And Or Sect B  
Acta Phytopathol  
Acta Pol Pharm (Engl Transl)  
Acta Vet (Budap)  
Acta Vet Scand  
Acta Zool Cracov  
ADAS Q Rev (Agric Dev Advis Serv)  
Adv Agron  
Advis Leaflet Minist Agric Fish Food  
(Edinb)  
AE Dep Agric Econ Rural Sociol  
Clemson Univ  
AERR Dep Agric Econ Agric Exp Stn  
Univ Ill Urbana Champaign  
AFRI Res Rep N Y (State) State Univ  
Coll Environ Sci For Appl For Res  
Inst  
Agric Agroind J  
Agric Am  
Agric Biol Chem  
Agric Bull Saga Univ  
Agric Econ Rep Dep Agric Econ Mich  
State Univ  
Agric Educ  
Agric Elev Morbihan  
Agric Eng (St Joseph, Mich)  
Agric Exp Stn Res Rep N M State Univ  
Agric Gaz N S W  
Agric Handb U S Dep Agric  
Agric Hist  
Agric Hong Kong Agric Fish Dep Hong  
Kong  
Agric Hortie  
Agric Merch  
Agric Res  
Agric Situation (Washington)  
Agriculture (Paris)  
Agrobotanika  
Agrochemophysica  
Agrochimica  
Agro-Ecosystems (Amsterdam)  
Agron Dep Mimeogr Ser Ohio Agric Res  
Dev Cent Dep Agron  
Agron J  
Agron Mimeo Cornell Univ Coll Agric  
Dep Agron  
Agronomia (Rio de Janeiro)  
Ajia Keizai  
Aktuel Lantbrukshogsk (Upps)

Alexanon  
Aliment Anim  
Alimenta  
Allg Dtsch Imkerztg  
Am Bee J  
Am Dairy Rev  
Am For  
Am J Anat  
Am J Enol Vitic  
Am J Epidemiol  
Am J Physiol  
Am J Public Health  
Am J Trop Med Hyg  
Am J Vet Res  
Am Midl Nat  
Am Mus Novit  
Am Orchid Soc Bull  
Am Potato J  
Am Veg Grow  
Amer J Clin Nutr  
AMS U S Dep Agric Agric Mark Serv  
An Inst Nac Invest Agrar, Ser Prod Veg  
An Inst Vinho Porto  
An Parques Nac  
An Soc Rural Argent  
Anal Biochem  
Anal Chim Acta  
Anat Rec  
Angew Parasitol  
Anim Blood Groups Biochem Genet  
Anim Husb  
Anim Prod  
Ann Acad Naz Agric  
Ann Amelior Plant  
Ann Appl Biol  
Ann Assoc Am Geogr  
Ann Biol Anim Biochim Biophys  
Ann Bot Fenn  
Ann Entomol Soc Am  
Ann Fac Med Vet Pisa  
Ann Genet Sel Anim  
Ann Hydrobiol  
Ann Ist Super Sanita (Roma)  
Ann N Y Acad Sci  
Ann Phytopathol  
Ann Phytopathol Soc Jap  
Ann Rep Hokkaido Branch Gov For Exp  
Stn  
Ann Sci For  
Ann Sci Nat Bot Biol Veg  
Ann Soc Entomol Fr  
Anz Schadlingskd Pflanzenschutz  
APHIS-91 U S Anim Plant Health Insp  
Serv  
Apiacta  
Apiculture  
Appl Entomol Zool  
Appl Microbiol  
Aquaculture  
Arb Gebiet Futterbaues  
Arbok Landbruksk Okon Organ  
Landbruksk Sentralforbund  
Arch Acker- Pflanzenbau Bodenkd  
Arch Environ Health  
Arch Gartenbau  
Arch Gesamt Virusforsch  
Arch Int Pharmacodyn Ther  
Arch Lebensm Hyg  
Arch Protistenkd  
Arch Tierernahr  
Arch Tierz  
Arecanut Spices Bull

ARS 62 Agric Res Serv U S Dep Agric  
Consum Food Econ Res Div  
Arsh Foren Skogsstradsfor Inst  
Skogsforbatt  
ARS-NC Agric Res Serv U S Dep Agric  
ARS-nE U S Agric Res Serv Northeast  
Reg  
Arsskr K Vet Landbohojisk  
ARS-W Agric Res Serv U S Dep Agric  
Arzneim Forsch (Drug Res)  
Ausbild Berat Land Hauswirtsch  
Aust Bee J  
Aust Beekeep  
Aust For Ind J  
Aust J Biol Sci  
Aust J Chem  
Aust J Exp Agric Anim Husb  
Aust J Exp Biol Med Sci  
Aust J Mar Freshwater Res  
Aust Vet J  
Avian Dis  
B Agric Exp Stn Max C Fleischmann  
Coll Agric Univ Nev Reno  
Baromfiipar  
Bauen Lande  
Bedrijfsontwikkeling  
Bee Craft  
Behav Genet  
Beitr Biol Pflanz  
Beitr Tabakforsch  
Belg Lait  
Ber Dan Pelsdyravlervoren  
Ber Dtsch Bot Ges  
Ber Getreidechem Tag  
Ber Landwirtsch (Hamburg)  
Beret Forsogslab (Kobenh)  
Berl Munch Tierarztl Wochenschr  
Biatas, The Tillage Farmer  
Biene  
Bienenwarter  
Bienenwelt  
Biochem Biophys Res Commun  
Biochem Genet  
Biochemistry (Easton)  
Biochim Biophys Acta  
Biokhimiia  
Biol J Linn Soc  
Biol Rundsch  
Biol Unser Zeit  
Biol Zh Arm  
Biologia, Ser B Zool  
Biologico  
BioScience  
Biotropica  
Bitki Koruma Bul  
Blyttia  
Bol Estac Exp Agric (Tucuman)  
Bot Bull Acad Sin, New Ser  
Bot J Linn Soc  
Bot Mar  
Bot Mus Leaflet Harv Univ  
Bot Not  
Botanica  
Botyfu Kagaku  
Br Bee J  
Br J Nutr  
Brantweinwirtschaft  
Brauwelt  
Brew Dig  
Brewing & Distilling Int  
Broil Ind  
Budownictwo Wjeks

Bull Acad Vet Fr  
Bull Am Assoc Bot Gard Arboreta  
Bull Assoc Diplomes Microbiol Fac  
Pharm Nancy  
Bull Br Mus Nat Hist Entomol  
Bull Coll Agric Vet Med Nihon Univ  
Bull Colo State Univ Exp Stn Fort  
Collins  
Bull Coop Ext Serv Mont State Univ  
Bull Coop Ext Serv Univ Ga Coll Agric  
Bull Div Agric Sci Univ Calif Agric Exp  
Stn  
Bull Ecol Soc Am  
Bull Entomol Res  
Bull Epizoot Dis Afr  
Bull Exp Stn S Afr Sugar Assoc  
Bull Fish Res Board Can  
Bull Fla Agric Exp Stn Inst Food Agric  
Sci Univ Fla Gainesville  
Bull Gov For Exp Stn (Tokyo)  
Bull Idaho Agric Exp Stn Univ Idaho  
Coll Agric  
Bull Inf CNEAMA (Cent Natl Etud Exp  
Mach Agric)  
Bull Inst Int Froid  
Bull Inst R Sci Nat Belg  
Bull Jap Soc Sci Fish  
Bull Math Biophys  
Bull Miss Agric For Exp Stn  
Bull N M Agric Exp Stn  
Bull N S W Dep Agric Div Plant Ind  
Bull Natl Res Inst Tea (Kanaya,  
Shizuoka)  
Bull OEPP (Organ Eur Mediterr Prot  
Plant)  
Bull Res Div, Va Polytech Inst State  
Univ  
Bull Sci, Sect A Sci Nat Tech Med Cons  
Acad Sci Arts RSF Yougosl  
Bull Soc Chim Fr  
Bull Soc Pathol Exot Ses Fil  
Bull Soc Sci Vet Med Comp Lyon  
Bull Tech Inf Minist Agric (Paris)  
Bull Univ Tenn Agric Exp Stn  
Bull W Va Univ Agric Exp Stn  
Bull Wash (State) Agric Exp Stn  
Bull Zool Nomencl  
C R Acad Bulg Sci  
C R Hebd Seances Acad Sci, Ser D Sci  
Nat  
C R Inst Tech Cereales Fourrages  
C R Mens Seances Acad Sci  
Cac Suc J G B  
Cah Ing Agron  
Cah Med Vet  
Cah Nat  
Cajanus  
Calif Health  
Calif Hortie J  
Calif Plant Pathol Univ Calif Agric Ext  
Cameroun Agric Pastor For  
Can Entomol  
Can Farm Econ  
Can For Ind  
Can J Anim Sci  
Can J Biochem  
Can J Bot  
Can J Comp Med  
Can J Genet Cytol  
Can J Microbiol  
Can J Physiol Pharmacol  
Can J Public Health



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- Can J Soil Sci  
Can J Zool  
Can Nutr Notes  
Can Plant Dis Surv  
Carbohydr Res  
Cas Nar Muz Oddil Prirodoved  
Castanea  
CCP F A O  
Cell Mass Inst Technol  
Cell Tissue Res  
Celul Hirtie  
Centralbl Gesante Forstwes  
Ceres  
Ceylon J Sci, Biol Sci  
Chem Ber  
Chem Biol Interactions  
Chem Commun  
Chem Eng News  
Chem Ind (Lond)  
Chem Ind (Tokyo)  
Chem N Z  
Chem Pharm Bull  
Chemosphere  
Chromosoma  
Chron Hortie  
Circ Agric Exp Stn Auburn Univ  
Circ Clemson Univ Coop U S Dep Agric  
Ext Serv  
Circ Coop Ext Serv Coll Agric Univ Ill  
Circ Div Agric Sci Univ Calif Agric Exp  
Stn Ext Serv  
Circ Estac Exp Agric (Tucuman)  
Circ Fla Agric Exp Stn Inst Food Agric  
Sci Univ Fla Gainesville  
Circ Wash Agric Exp Stn  
Citrograph  
Citrus Sub-Trop Fruit J  
Citrus Veg Mag  
Clin Biochem  
Clin Vet  
Collect Bot Barc Bot Inst Ed  
Collect Czech Chem Commun  
Commentat Biol Soc Sci Fenn  
Comp Biochem And Physiol  
Comp Gen Pharmacol  
Compost Sci  
Conserv Res Rep Agric Res Serv U S  
Dep Agric  
Coop Ext Pub La State Univ Agric Mech  
Coll Coop Ext Serv  
Cornell Vet  
Cotton Fibres Trop  
Cotton Res Rep (Swaziland)  
Cow Moos  
CRC Crit Rev Environ Control (Chem  
Rubber Co)  
CRC Crit Rev Food Technol (Chem  
Rubber Co)  
Crop Bull Can Grain Comm Grain  
Comm Res Lab (Winnipeg)  
Crop Sci  
Crops Soils  
CSIRO Food Res Q  
Cult Life  
Cult Dairy Prod J  
Cultivar  
Curr Sci  
Cytobios  
Cytogenet Cell Genet  
Dairy Farmer  
Dairy Tales  
Dairyfarm Dig  
Dan Erhvervsfjerkræ  
Dan Pelsdyravl  
Delt Ellin Kintiar Etair  
Delt Nye Dan Landbrug  
Dev Biol  
Dokl Akad Nauk SSSR  
Dokl Bot Sci  
Drobnarstwo  
Dtsch Agrartech  
Dtsch Entomol Z  
Dtsch Lebensm Rundsch  
Dtsch Milchwirtsch  
Dtsch Molb Ztg  
Dtsch Muller Ztg  
Dtsch Pelztierz  
Dtsch Tierarztl  
E S M Ohio State Univ Dep Agric Econ  
Rural Sociol  
East Afr Agric For J  
Ecol Res Ser EPA U S Environ Prot  
Agency  
Ecology (Durham)  
Econ Agric  
Econ Agric Farm Manage FM  
Econ Plann  
Einzelbericht Forschungsges Agrarpolit  
Agrarsoziologie Bonn  
Ekon Sel'sk Khoz
- Ellemz Ipar  
Ellenike Kteniatri  
EM Coop Ext Serv Coll Agric Wash  
State Univ  
Empress Chinchil  
Endocrinology  
Entomol Ber (Amsterdam)  
Entomol Exp Appl  
Entomol Obozr  
Entomol Z  
Entomops  
Environ Entomol  
Environ Monit Ser EPA U S Environ  
Prot Agency  
Environ Physiol Biochem  
Environ Pollut  
Environ Prot Technol Ser EPA U S  
Environ Prot Agency  
Environ Sci Tech  
Erdo  
Ernahrungsforschung  
ERS Foreign Reg Anal Div Econ Serv U  
S Dep Agric  
ERS U S Dep Agric Econ Res Serv  
Essent Nematodology  
Essex Soc Rev  
Etud CNEEMA (Cent Natl Etud Exp  
Mach Agric)  
Eur J Biochem  
Eur J For Pathol  
Eur J Pharmacol  
Evolution  
Evoluzione Agric  
Exp Anim  
Exp Gerontol  
Experientia  
Ext Bull ASPAC Food Fert Technol  
Cent (Asian Pac Council)  
Ext Bull Dep Agric South Aust  
Ext Bull E Coop Ext Serv Mich State  
Univ  
Ext Circ Univ R I Coop Ext Serv  
Ext Serv Rev U S Dep Agric  
Faipar  
FAO Agric Stud  
Farm Chem Cropfile  
Farm Fact  
Farm For  
Farm Front  
Farm J (Calcutta)  
Farmer Parliament  
Farmfutures  
Farming Mech  
Farksoel  
FATUS (Foreign Agric Trade U S)  
FEBS Lett (Fed Eur Biochem Soc)  
Fed Proc Fed Am Soc Exp Biol  
Feed Ind  
Feedlot Manage  
Feldwirtschaft  
Feline Pract  
Fennia  
Fert Solu  
Fette Seifen Anstrichm  
FIBRA  
Fiediana, Zool  
Fieldiana Bot  
Financ Agric  
Fiziol Biokhim Kult Rast  
Fiziol Rast (Mosk)  
Fjaderfa  
Fleisch  
Fleischerei  
Fleischwirtschaft  
Florists Rev  
Flower Nursery Rep Commer Grow  
Coop Ext Univ Calif  
FNS U S Dep Agric Food Nutr Serv  
Focus Beef  
Fol Coop Ext Serv Agric Exp Stn Mont  
State Univ  
Folia Biol (Praha)  
Folia Entomol Hung  
Folia For  
Folia Microbiol  
Folia Parasit  
Food and Nutr News  
Food Ind S Afr  
Food Manuf  
Food Nutr  
Food Nutr Notes Rev  
Food Technol  
Food Technol Aust  
For Chron  
For Econ  
For Hist  
For Notes  
For Occas Pap Food Agric Organ U N  
For Prod J  
For Serv Res Pap Wo U S Dep Agric
- For Tree Ser Commonw Aust Dep Natl  
Dev For Timber Bur  
Forage Notes  
Forderungsdienst  
Foreign Agric  
Foreign Agric Circ, Cann Fruit Fean (U  
S Dep Agric)  
Foreign Agric Circ, Grains FG, U S Dep  
Agric Foreign Agric Serv  
Foreign Agric Circ, Grains FR, U S Dep  
Agric Foreign Agric Serv  
Foreign Agric Circ, Poult FPE (U S Dep  
Agric)  
Foreign Agric Circ, Tob FT (U S Dep  
Agric)  
Foreign Agric Econ Rep U S Dep Agric  
Econ Res Serv  
Forestry  
Forst Holzwirt  
Forstarchiv  
Forsttech Inf  
Forstwiss Centralbl  
Fortschr Tierphysiol Tierernahr  
Fragm Entomol  
Fragm Faun Pol Akad Nauk Inst Zool  
Freshwater Biol  
Front Plant Sci  
Frugtavleren  
Fruit World Mark Grow  
Fruits  
Fruits & Abeilles  
FS (Am Wood) U S For Serv  
G Allea  
Ga For Res Pap  
Gac Colmenar  
Gartenbau  
Gartenbau Versuchsber  
Gartner Tid  
Gazdalkodas  
Gemuse  
Genetics  
Genetika  
Geochim Cosmochim Acta  
Geoderma  
Geogr Rev  
Geogr World Agric  
Gesunde Pflanz  
Getreide Mehli Brot  
Ghana J Agric Sci  
Glean Bee Cult  
Glimpses in Plant Research  
Grana  
Great Plains Agric Council Publ  
Growth & Change Coll Bus Econ Univ  
Ky  
Grune  
Haven  
Health Phys  
Helv Chim Acta  
Herba Pol  
Hereditas  
Heredity  
Highlights Agric Res  
Hilgardia  
Hoards Dairyrn  
Hodowla Rosl Aklim Inasiennic  
Hog Farm Manage  
Holz Roh Werkst  
Holztechnologie  
Home Econ Res J  
Hopfenrundscha  
Hoppe Seylers Z Physiol Chem  
Hoshasei Kushujo Gamma Field Symp  
Household Equip Ser La Agric Ext Serv  
Human Ecol Forum  
I A E A Bull  
Idojaras  
Ill Vet  
Imkerfreund  
In Biology of the Land Plants  
Symposium held at Botany Dept  
Meerut Univ  
In Dynamic Aspects of Plant  
Ultrastructure. A. W. Robards, ed.  
In Fiziologicheskie Mekhanizmy  
Adaptatsii i Ustochivosti U Rastenii  
In Forage Fertilization. D. A. Mays, ed.  
In Isotope Tracer Studies of Chemical  
Residues in Food and the Agricultural  
Environment Proceedings and Report  
In Mesas Redondas Sobre Desarrollo y  
Ecologia Instituto Mexicano de  
Recursos Naturales Renovables  
In Proc World Wide Maize Improv in  
the 70's and the Role for IMMYT  
(Cent Int Mejoramiento Maiz Y Trigo)  
In Proceedings International Symposium  
on Soil Structure
- In Proceedings of the International  
Symposium on Nitrite in Meat  
Products  
In Proceedings of the Summer Institute  
on Biological Control of Plant Insects  
& Dis. F. G. Maxwell, & F. A. Harris,  
In Reproduction in Farm Animals. E. S.  
E. Hafez, ed.  
In Selective Inhibitors of Viral Functions.  
W. A. Carter, Ed.  
In Seminar Papers on Agrarian Reform  
In Structure and Function of Primary  
Root Tissues Proceedings of a  
Symposium. J. Kolek, ed.  
In The Environment Costs, Conflicts,  
Action. J. Cairns, Jr & K. L. Dickson,  
eds.  
In The Environmental Challenge. W. H.  
Johnson & W. C. Steere, eds.  
Ind Aliment  
Ind Obst Gemuseverwert  
Ind Sacarifi Ital  
Indian Dairyrn  
Indian Farming  
Indian J Agric Res  
Indian J Anim Sci  
Indian J Biochem  
Indian J Chem  
Indian J Dairy Sci  
Indian J Exp Biol  
Indian J Med Res  
Indian J Nematol  
Indian J Nutr Diet  
Indian J Pharm Sci  
Indian J Poultry Sci  
Indian J Technol  
Indian Phytopathol  
Indian Poultry Gaz  
Indian Sugar  
Indian Vet J  
Indus  
Inf Bull Inst Maize & Wheat Improv  
Cent  
Inf Conf Cursos Reun I I C A (Interam  
Inst Cienc Agric)  
Inf Fitopatol  
Inf Internes Agric  
Inf Rep M-X Marit For Res Cent  
(Frederation N B)  
Infect Immun  
Insect Pest Surv Tasmania Dep Agric  
Insect World Dig  
Insecta Matsumura  
Inst Paper Commonw For Inst Univ Oxf  
Inst Distrib  
Inst Fruit World  
Int J Chronobiol  
Int J Environ Stud  
Int J Vitam Nutr Res  
Int Rev Gesamten Hydrobiol  
Int Sugar J  
Inten Agric  
Interdep Publ ID Univ Ky Coop Ext  
Serv  
Iowa State J Res  
Ir Beekeep (An Beacaire)  
Ir Vet J  
Iran J Agric Res  
Irrig Age Hereford  
Irrigation  
Isotopenpraxis  
Isr J Zool  
Izv Vyssh Uchebn Zaved, Pishch  
Tekhnol  
J Agric Chem Soc Jap  
J Agric Econ  
J Agric Eng  
J Agric Exp Res  
J Agric (Melb)  
J Agric Sci (Camb)  
J Agric Soc Jap  
J Agric Soc Trinidad Tobago  
J Agric Tasman  
J Agric West Aust  
J Air Pollut Control Assoc  
J Am Chem Soc  
J Am Diet Assoc  
J Am Leather Chem Assoc  
J Am Oil Chem Soc  
J Am Vet Med Assoc  
J Am Water Works Assoc  
J Anim Sci  
J Appl Meteorol  
J Appl Physiol  
J Appl Polym Sci  
J Aust Inst Agric Sci  
J Bacteriol  
J Bioenerget  
J Biol Chem  
J Bombay Nat Hist Soc

- J Br Grassl Soc  
 J Cell Biol  
 J Cell Sci  
 J Cent Agric Exp Stn (Konosu)  
 J Chem Educ  
 J Chem Soc, Perkin Trans I  
 J Chromatogr  
 J Coffee Res  
 J Colloid Interface Sci  
 J Comp Pathol  
 J Comp Physiol  
 J Dairy Sci  
 J Ecol  
 J Econ Entomol  
 J Endocrinol  
 J Entomol, Ser B, Taxon  
 J Evol Biochem Physiol  
 J Exp Biol  
 J Exp Bot  
 J Food Sci  
 J Food Sci Tech  
 J For Suisse  
 J Gen Appl Microbiol  
 J Gen Microbiol  
 J Gen Physiol  
 J Gen Virol  
 J Geogr  
 J Helminthol  
 J Hered  
 J Home Econ  
 J Hortie Sci  
 J Hydrol  
 J Hydrol N Z  
 J Immunogenet  
 J Indian Chem Soc  
 J Indian Soc Soil Sci  
 J Inst Anim Tech  
 J Inst Brew  
 J Interdis Cycle Res  
 J Jap Bot  
 J Jap For Soc  
 J Jap Soc Hortie Sci  
 J Jap Vet Med Assoc  
 J Jap Wood Res Soc  
 J Kans Entomol Soc  
 J Lipid Res  
 J Med Microbiol  
 J Microsc (Paris)  
 J Milk Food Technol  
 J Mod Afr Sch  
 J Mol Biol  
 J Natl Acad Sci Repub Korea Nat Sci  
 Ser  
 J Nematol  
 J Nutr Educ  
 J Org Chem  
 J Parasitol  
 J Pharm Soc Jap  
 J Phycol  
 J Physiol  
 J Physiol (Paris)  
 J Polym Sci, Part A 1 Polym Chem  
 J R Hortie Sci  
 J R Soc N Z  
 J Sci Food Agric  
 J Sci Hir Univ, Ser A II Phys Chem  
 J Sci Soil Manure  
 J Sediment Petrol  
 J Small Anim Pract  
 J Soc Agric Mach Jap  
 J Soil Water Conserv  
 J Submicrosc Cytol  
 J Virol  
 J Water Pollut Control Fed  
 Jahrb Bundesanst Pflanzenbau Samenpruf  
 Wien  
 Jap J Appl Entomol Zool  
 Jap J Breed  
 Jap J Ecol  
 Jap J Zootech Sci  
 Jarmuvek, Mezogazd Gepek  
 JARQ (Jap Agric Res Q)  
 JNKVV Res J (Jarwarharial Nehru Krishi  
 Vishwa Vidyalaya)  
 Jordbruksekon Medd  
 K Skogs Lantbruksskad Tioskr  
 Kaktien Sukkulenten  
 Kartoffelbau  
 Kemia-Kemi (Helsinki)  
 Kenya Cof  
 Khim Sel'sk Khoz  
 Kooperation  
 Kraftfutter  
 L Tex A M Univ Tex Agric Exp Stn  
 La Agric  
 La Vie Agric Meuse  
 La Yaaran  
 Lab Anim Sci  
 Lab Anim United Bus Publ (N Y)  
 Lambillionera
- Lancet  
 Land Forstwirtschaft Forsch Osterr  
 Land Resour Study G B Foreign  
 Common Off Land Resour Div  
 Landbauforsch Volkenrode  
 Landbo Nyt  
 Landbouwmecanisiatie  
 Landmasch Markt  
 Landwirtschaft Angew Wiss  
 Landwirtschaft Forsch Sonderh  
 Landwirtschaftl Jahrb Schweiz  
 Lantbrukshogsk Medd, Ser A  
 Laporan Dir Jenderal Kehutanan  
 Latte  
 Lav Arrozo  
 LC (Listy Cukrov)  
 Leaf Agric Res Organ Div For Ilanot  
 Div Sci Publ  
 Leaf An Roinn Talmhaiochta Agus  
 Iascaigh  
 Leaf Aust Dep Agric For Timber Bur  
 Leaf Coop Ext Serv Univ Arkansas Div  
 Agric  
 Leaf Coop Ext Serv Univ Ga Coll Agric  
 Leben Erde  
 Lebensm Ind  
 Lejeunia  
 L'eleavage  
 L'Eperon  
 Lepid Soc News  
 Lesn Cas  
 Lesn Khoz  
 Lesn Zh Izv Vyssh Uchebn Zaved  
 Lesnictvi  
 Lichenologist  
 Life Sci  
 Lily Yearb North Am Lily Soc  
 Lipids  
 Livest Meat Situation  
 Livest Prod Sci  
 Lohnunterne Land Forstwirtschaft  
 LTC (Publ) Univ Wis (Land Tenure  
 Cent)  
 LWT (Lebensmitt Wissensch Technol)  
 M A F E S Res Highlights (Miss Agric  
 For Exp Stn)  
 M MA (Macch Mot Agric)  
 M P Arkansas Univ Coll Agric Ext Serv  
 (Misc Publ)  
 Maataloushallinnon Aikak  
 Madrono  
 Maelkeritieding  
 Magy Techiltech  
 Maine For Res  
 Malompar Termenyforal  
 Mar Biol  
 Mark Res Rep U S Dep Agric Econ Res  
 Serv  
 Mark Transp Situation  
 Materialsamml Agrarsoz Ges  
 Maydisca  
 Mech Roln  
 Mech Zemed  
 Med Insight  
 Med Parazitol Parazit Bolezn  
 Medd Jordbruk Utdredningsinst  
 Medd Jordbruktek Inst  
 Medd, Ser A Kungl Lantbrukststyr  
 (Stockh)  
 Meded Ouderdrucken Landbouwe Econ  
 Inst  
 Meded Rijksinst Zuiver Afvalwater  
 Medlemsbl Dan Dyrlaageforen  
 Meieriposten  
 Mejeribrugets Uge-Nyt  
 Meld Inst Bygningstek Nor  
 Landbrukshogsk  
 Meld Landbrukstek Inst Vollebekk Nor  
 Mem Coll Agric Natl Taiwan Univ  
 Memo Tec Sec Recurso Hidraul Dir  
 Gen Dist Riego Dir Estad Estad Econ  
 Metod Zavadv Vysled Vyzk Praxe  
 Metsantutkimuslait Julk  
 Mezogazd Tech  
 Mich Farm Econ  
 Microbiology  
 Microbios  
 Microsc Acta  
 Mikrobiol Zh  
 Mikrokosmos  
 Milchwirtschaft Ber Bundesanst  
 Wolfpassing Rotholz  
 Milchwissenschaft  
 Milling  
 Mimeno Rep Fla Everglades Exp Stn  
 (Belle Glade)  
 Minn Sci  
 MIRINZ Meat Indus Res Inst N Z  
 Misc Inf Tokyo Univ For  
 Misc Publ Coop Ext Serv Univ Hawaii
- Mitt Biol Bundesanst Land Forstwirtschaft  
 (Berlin-Dahlem)  
 Mitt Bot Staatssamml Munch  
 Mitt DLG (Dtsch Landwirtschaft Ges),  
 Ausg A  
 Mitt Entomol Ges Basel  
 Mitt Forstl Bundes-Versuchsanst Wien  
 Mitt Obstbauversuchsanst Alten Landes  
 Mitt Schweiz Landwirtschaft  
 Mitt Zool Mus Berl  
 Mod Agric  
 Mod Vet Pract  
 Mol Gen Genet (MGG)  
 Molieria Panaderia  
 Molkg-Ztg Welt Milch  
 Molochn Prom St  
 Monatsh Veterinarmed  
 Monit Zool Ital  
 Monogr Can Dep Agric  
 Mosq News  
 MP Tex A M Univ Tex Agric Exp Stn  
 Mt Grow  
 Muhle Mischfüttertech  
 Mushroom J  
 Mutat Res  
 Myforest  
 N S W Dairyman  
 N Z Beekeep  
 N Z J Agric  
 N Z J Bot  
 N Z J Exp Agric  
 N Z J For  
 N Z Soil News  
 N Z Tob Grow J  
 N Z Vet J  
 Na Okika O Hawaii (Hawaii Orchid J)  
 Nachrichtsbil Dtsch Pflanzenschutz  
 Nat And Resour  
 Natl Cac Suc J  
 Natl Pest Control Oper News  
 Natl Wool Grow  
 Nature  
 Naturwiss Rundsch  
 Nauka Pol  
 Nauka i Inzhi Sci Earth Pedol  
 Naunyn Schmiedbergs Arch Pharmacol  
 Nebr Tractor Test  
 Ned Bosbouw Tijdschr  
 Nematropica  
 Neth J Plant Pathol  
 Neue Bienezucht  
 Neuroendocrinology  
 New Phytol  
 New York Times  
 News Am Coll Vet Toxicol  
 News N J Beekeep Assoc  
 Niger J Econ Soc Stud  
 Niwatori-no-kenkyu Nowatori No  
 Kenkyusha (Poult J Poult Res Assoc)  
 NIZO Rapp (Ned Inst Zuivelvond Ede)  
 Nor Skogind  
 Nord Hydrol  
 Norw J Zool  
 Not Entomol  
 Notes I E A (Inst Econ Agric Brux)  
 Nouv Avic  
 Nowe Roln  
 Nutr Metab  
 Nutr News  
 Nutr Exp Int  
 Nutr Rev  
 Nutrition  
 Obz Inf Minn Sel'sk Khoz SSSR Vses  
 Nauchno-Issled Inst Inf Tekh-Ekon  
 Issled Sel'sk Khoz  
 Occas Pap Calif Acad Sci  
 Occas Pap Dep Agric Econ Cornell Univ  
 Q S A Id Prices Res Prou  
 Oecologia  
 Oils Oilseeds J  
 Oleagineux  
 Opera Bot  
 Oreg Agric Prog  
 Org Gard Farming  
 Oriental Insect  
 OSU Ext Facts (Okla State Univ)  
 Outlook Agric  
 Outlook Wash United Fresh Fruit Veg  
 Assoc  
 Oxf Agrar Stud  
 P R Tex Agric Exp Stn Coll Stn  
 Pak J Bot  
 PANS Pest Artic News Summ  
 Pap Pau  
 Papier  
 Parasitology  
 Paysans  
 PB Natl Tech Inf Serv Commer  
 Pchelarstvo  
 Peanut J Nut World
- Pediatric Annals  
 Pedobiologia  
 Personnel J  
 Persoonia  
 Pest Control  
 Pflugers Arch  
 Pharm Acta Helv  
 Photochem Photobiol  
 Photogramm Eng  
 Physiol Biochem Cultiv Plants  
 Physiol Plant  
 Physiol Plant Pathol  
 Phytochemistry  
 Phytomorphology  
 Phytopathol Z  
 Phytophlyactica  
 Pittieria  
 Plant Cell Physiol  
 Plant Chron  
 Plant Prot Bull (Rome)  
 Plant Sci Lett  
 Plant Soil  
 Planta  
 PM Coop Ext Serv Iowa State Univ  
 Pochvoedenie  
 Pochvozn Agrokhim  
 Pollen Spores  
 Pollut Eng  
 Polym Sci U S S R  
 Pomol Fr  
 Potato Res  
 Poult Guide  
 Poult Notes N S W Dep Agric  
 Poult Trib  
 Prakt Schadlingsbekampf  
 Prikl Biokhim Mikrobiol  
 Pri Znanie  
 Priroda (Mosk)  
 Proc Biol Soc Wash  
 Proc Crop Sci Soc Jap  
 Proc Indian Acad Sci, Sec B  
 Proc Indian Natl Sci Acad, Part A Phys  
 Sci  
 Proc Indian Natl Sci Acad, Part B Biol  
 Sci  
 Proc Inst Food Sci Technol (U K)  
 Proc La Acad Sci  
 Proc La Assoc Agron  
 Proc Linnean Soc N S W  
 Proc Nutr Conf Feed Manuf  
 Proc Pa Acad Sci  
 Proc Poult Inst Univ Calif Agric Ext  
 Proc R Soc Lond, B Biol Sci  
 Proc R Soc Queensl  
 Proc Soc Am For  
 Proc Soc Exp Biol Med  
 Proc Staten Isl Inst Arts Sci  
 Proc Tex Turfgrass Conf  
 Prog Agric Anz  
 Prog Agric Vitic  
 Prog Farming  
 Prog Rep Sociol Anthropol Agric Exp  
 Stn N C State Univ  
 Propr Terrienne  
 Przem Drzew  
 Pszczelarstwo  
 Publ Agric Can  
 Publ Dep Environ Can For Serv  
 Publ Geogr Inst Rijks Univ Utrecht  
 Publ Health Rep  
 Publ Inst Tsinbouwtech  
 Public Health Rep  
 Public Roads U S Fed Highw  
 Pulp & Pap Can  
 Puti Povysh Urozhasnost Poleyvkh Kul't  
 Q J Agric Econ  
 Q J Exp Physiol Cogn Med Sci  
 Q S A Id Farm Ranch Home Univ Nebr  
 Qual Plant Plant Foods Human Nutr  
 Queensl J Agric Anim Sci  
 Query File Commonw Bur Hortie Plant  
 Crops  
 R Agric Exp Stn Max C Fleischmann  
 Coll Agric Univ Nev Reno  
 Radiat Bot  
 Radiobiologia  
 Radiobiologia  
 Rangenam's J Soc Range Mange  
 Rapp Proefstn Rundveehouderij  
 Rasen Turf/Gazon  
 Rass Chim  
 Rastenevud Nauk  
 Rastit Resur  
 Reci Med Vet  
 Reinwardia  
 Rep Conn Pomol Soc With Proc  
 Rep Sch Agric Univ Nottingham  
 Rep Taiwan Sugar Exp Stn  
 Rep Water Resour Res Inst Univ N C



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

Res Bull Univ Ga Coll Agric Exp Stn  
 Res Circ Ohio Agric Res Dev Cent  
 Res Norw Agric  
 Res Pap For Dep West Aust  
 Res Pap For Res Lab Sch For Oreg State Univ  
 Res Pap Savanna For Res Stn Ser Fed  
 Repub Niger Minist Agric Nat Resour  
 Fed Dep For Res  
 Res Rep Ky Agric Exp Stn  
 Res Rep Mich State Univ Agric Exp Stn  
 Res Rep Res Div Coll Agric Life Sci Univ Wis  
 Res Summ Ohio Agric Res Dev Cent  
 Respir Physiol  
 Restaurant Bus  
 Rev Agric (Brux)  
 Rev Algal  
 Rev Bryol Lichenol  
 Rev Ecol Biol Sol  
 Rev Elev Med Vet Pays Trop  
 Rev ESSO Agric  
 Rev Etud Coop  
 Rev Fac Agron, Medellin  
 Rev Fr Corps Gras  
 Rev Gen Bot  
 Rev Hortie Suisse  
 Rev Med Vet (Toulouse)  
 Rev Padur  
 Rev Roum Biochim  
 Rev Suisse Zool  
 Rev Tussock Grassl Mt Lands Inst  
 Rev Zool Agric Pathol Veg  
 Rheinische Bienenztg  
 Rice J  
 Ringyo Gijitsu For Tech  
 Riso  
 Riv Ital Sost Grasse  
 Riv Ortofruttic Ital  
 Riv Zoote Vet  
 Rostl Vyroba  
 Rozpr Nauk Szk GI Gospod Wiejsk (Warszawa)  
 S Afr J Dairy Technol  
 S Afr J Sci  
 Sabouraudia  
 Sakhi Prom-st'  
 Samaru Agric News  
 Samaru Res Bull  
 SB Univ Nebr Lincoln Coll Agric Agric Exp Stn  
 Sch Foodserv J  
 Schlacht Viehhof Ztg  
 Schriften Bundes Lebensmittelrecht  
 Lebensmittelk  
 Schriften Land Sozialfragen  
 Schriften Ver Wasser Boden Lufthy  
 Schweiz Bienen-Zeitung  
 Schweiz Landtech Dtsch Ausg  
 Schweiz Z Obst Weinbau  
 Sci Agric Bohemoslov  
 Sci Cult  
 Sci Sin  
 Science  
 Seker  
 Sel Semenovod (Mosk)  
 Sel Vet Ist Zooprofil Sper Lomb Emilia  
 Sementi Elette  
 Ser Hist Zesz Nauk Szk GI Gospod Wiejsk Warsz  
 Ser Tec INTA Min Agr Ganad Nacion  
 Est Exp Reg Agr Parana (Inst Nac Tecnol Agropecu)  
 Silva Fenn  
 Silvae Genet  
 Skogsbruket  
 Soc Econ Stud  
 Socioecon Environ Stud Ser EPA- US  
 Environ Prot Agency Off Res Dev  
 Socker, Handlinger II  
 Soil Conserv  
 Soil Sci  
 Soobshch Akad Nauk Gruz SSR  
 South Coop Ser  
 Southwest Vet  
 Sov J Dev Biol  
 Sov Plant Physiol  
 Sov Soil Sci  
 Soybean Dig  
 Soz Forstwirtschaft  
 Spec Circ Pa State Univ Ext Serv  
 Spec Rep Agric Home Econ Exp Stn  
 Iowa State Univ Sci Tech  
 Spec Rep Mo Agric Exp Stn  
 Spec Rep Oreg State Univ Agric Exp Stn  
 Spec Rep Va Polytech Inst State Univ  
 Wood Res Wood Constr Lab  
 Spudman  
 Staff Pap Dep Agric Appl Econ Univ Minn  
 State For Notes Calif Div For  
 Stn Bull Agric Exp Stn Oreg State Univ  
 Stud Fauna Suriname & Other Guyanas  
 Stud For Suec  
 Stud Inf, Ochr Rostl  
 Succulenta  
 Sucr Fr  
 Sugar Azucar  
 Sugar News  
 Sugarcane Breed News  
 Sugarcane Pathol News  
 Suom Elainlaakaril  
 Super Stud  
 Sven Frotidn  
 Sven Papperstidn  
 Sver Utsadesforen Tidskr  
 Svinskotsel  
 Swed J Agric Res  
 Taiwan Sugar  
 Tappi (Tech Assoc Pulp Paper Ind)  
 Tec Molit  
 Tech Bull Agric Exp Stn Univ Ariz  
 Tech Bull Agric Exp Stn Univ Minn  
 Tech Bull Agric Res Serv U S Dep Agric  
 Tech Circ B F M I R A (Br Food Manuf Ind Res Assoc)  
 Tech Commun Dep Agric Tech Serv (Pretoria)  
 Tech Q Mast Brew Assoc Am  
 Technol Rep Cotton Technol Res Lab  
 Indian Coun Agric Res  
 Tehnol Mesa  
 Teho  
 Tek Bul Ser Oromancil Arastirma Enst  
 Yayin  
 Terminol Bull FAO  
 Tetrahedron  
 Tetrahedron Lett  
 Text Chem Color  
 Text Prax Int Ed  
 Textilia  
 Thierogenology  
 Tierarztl Umsch  
 Tierzuechter  
 Tijdschr Diergeneesk  
 Timber Grow  
 Tohoku J Agric Res  
 Tolvmandsbladet  
 Toxicology  
 Trans Am Entomol Soc  
 Trans Biochem Soc  
 Trans Ky Acad Sci  
 Trans Mycol Soc Jap  
 Trans R Entomol Soc Lond  
 Trans R Soc Trop Med Hyg  
 Trop Agric (Guilford)  
 Tsiologia  
 Tuinbouwbeichten  
 Turrialba  
 Two Bud  
 U S D A For Serv Gen Tech Rep I N T  
 U S Intermt For Range Exp Stn  
 U S D A For Serv Res Pap NE (U S Dep Agric Northeast For Exp Stn)  
 U S D A For Serv Res Pap S E For Serv  
 U S Dep Agric Southeast For Exp Stn  
 U S For Serv For Pest Leaf  
 U S For Serv Res Pap RM (Rocky Mt For Range Exp Stn)  
 Uganda For Dep Tech Note  
 Ugeskr Agron  
 Umschau  
 Umwelt  
 Univ Kans Sci Bull  
 Unser Milchvieh  
 USDA For Serv Gen Tech Rep PNW Pac  
 Northwest For Range Ext Stn U S Dep Agric  
 USDA For Serv Res Note NE (U S Dep Agric Northeast For Exp Stn)  
 USDA For Serv Gen Tech Rep NC  
 North Cent For Exp Stn Fo R Serv U S Dep Agric  
 USDA For Serv Gen Tech Rep RM  
 Rocky Mt For Range Exp Stn For Serv U S Dep Agric  
 USDA For Serv Res Note PNW (Pac Northwest For Range Exp Stn U S Dep Agric)  
 USDA For Serv Res Note SE (U S Dep Agric For Serv Southeast For Exp Stn)  
 Usp Khim  
 Uzb Khim Zh  
 Va For  
 Va J Sci  
 Vcelar  
 Vcelarstvi  
 Veg Crops Ser Calif Univ Coll Agric  
 Dep Veg Crops  
 Versl Inst Biol Enscheid Onderz Landbouwgew (Wageningen)  
 Versuchsergeb Bundesanst Pelanzenbau  
 Samenpruf Wien  
 Vet Bull  
 Vet Rec  
 Veterinaria (Madr)  
 Veterinaria (Mosk)  
 Vierteljahrsschr Naturforsch Ges Zurich  
 Virology  
 Vismak Akad Nauk Ukr RSR  
 VM SAC (Vet Med Small Anim Clin)  
 W H O Tech Rep Ser  
 Waldhygiene  
 Water Res  
 Weed Sci  
 Weinberg Keller  
 What's New Home Econ  
 Wiad Inst Melior Uzytkow Zielon  
 Wood Fibre  
 Wood Ind  
 World Anim Rev  
 World Crops  
 World Wood  
 Wrightia  
 Z Allg Mikrobiol  
 Z Kulturtech Flurbereinig  
 Z Parasitenkd  
 Z Pflanzenernahr Bodenkd  
 Z Pflanzenphysiol  
 Z Tierphysiol Tierernahr Futtermittelkd  
 Z Tierpsychol  
 Z Tierz Zuchtungsbiol  
 Zashch Rast  
 Zentralbl Bakteriol Parasitenkd  
 Infektionskr Hyg, I Abt Orig, reihe A  
 Med Mikrobiol Parasitol  
 Zentralbl Veterinarmed, Reihe A  
 Zentralbl Veterinarmed, Reihe B  
 Zh Vses Khim Obshch Im D I Mendeleeva  
 Zhivotnovodstvo  
 Zivocisna Vyroba  
 ZL (Zahradnicke Listy)  
 Zool Anz  
 Zool Jahrb, Abt Allg Zool Physiol Tiere  
 Zool Jahrb, Abt Syst Okol Geogr Tiere  
 Zool Meded Rijksmus Nat Hist Leiden  
 Zool Verh Uitgeg Rijksmus Nat Hist Leiden  
 Zootecnia (Madr)  
 Zucker

# MAIN ENTRY SECTION

## GENERAL AGRICULTURE AND RURAL SOCIOLOGY

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Veterinary medicine	160198 - 160301
Infectious and parasitic diseases	160302 - 160768
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*Life sciences	
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*Economics and administration	
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\*These categories are infrequently used

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# INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

## CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into nine sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, and a personal author index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

## MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

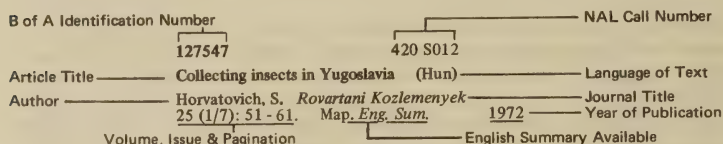


Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr) Afrikaans	(Fle) Flemish	(Lit) Lithuanian
(Alb) Albanian	(Fre) French	(Mac) Macedonian
(Arm) Armenian	(Geo) Georgian	(Nor) Norwegian
(Aze) Azerbaijani	(Ger) German	(Pol) Polish
(Bel) Belorussian	(Gre) Greek	(Por) Portuguese
(Bul) Bulgarian	(Heb) Hebrew	(Rum) Rumanian
(Bur) Burmese	(Hun) Hungarian	(Rus) Russian
(Chi) Chinese	(Ice) Icelandic	(Ser) Serbian
(Cro) Croatian	(Ind) Indonesian	(Slo) Slovak
(Cze) Czech	(Ita) Italian	(Slv) Slovenian
(Dan) Danish	(Jap) Japanese	(Spa) Spanish
(Dut) Dutch	(Kor) Korean	(Swe) Swedish
(Est) Estonian	(Lat) Latin	(Tha) Thai
(Fin) Finnish	(Lav) Latvian	(Tur) Turkish
		(Ukr) Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



## MAIN ENTRY SUB-SECTIONS

Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications; State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries appear in The Main Entry Section as well as in the sub-sections.

## GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

## CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.

Corporate Author	Hawaii University, Cooperative Extension Service	010221	Bibliography of Agriculture Identification Number
	Louisiana, Rice Experiment Station	007596	

## AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.

Author	Adam G	123145	Bibliography of Agriculture Identification Number
	Zhelev A	120093	

## AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	\$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic	\$1.00 for each 10 pages or fraction copied from a single article or book.
Copies:	

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.





# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- A Coop Ext Programs Univ Wis  
A D C Teach Forum (Agric Dev Counc Inc)  
A E Res Dep Agric Econ Cornell Univ  
Agric Exp Stn N Y State Coll Agric  
A S A Spec Publ Am Soc Agron  
Acad Agric Fr C R Seances  
Acarologia  
Acrida  
Acta Agrar Silv, Ser Agrar  
Acta Agron (Palmira)  
Acta Biol Cracov, Ser Zool  
Acta Bot Fenn  
Acta Bot Neerl  
Acta Chem Scand Ser B Org Chem  
Biochem  
Acta Entomol Bohemoslov  
Acta Entomol Fenn  
Acta Fac Rerum Nat Univ Comenianae Bot  
Acta Faun Entomol Prague Nar Mus  
Acta Microbiol Pol, Ser B Microbiol Appl  
Acta Nat Isl  
Acta Parasitol Iugosl  
Acta Pathol Microbiol Scand, Sect B Microbiol Immunol  
Acta Physiol Scand  
Acta Trop  
Acta Vet (Budap)  
Acta Vet Scand  
Acta Virol  
Acta Zool Cracov  
Acta Zool Pathol Antverp  
Acta Zool Sin  
Acta Zool (Stockh)  
Actuel Dev  
Adv Appl Microbiol  
Adv Cancer Res  
Adv Ecol Res  
Adv Exp Med Biol  
Adv Lipid Res  
Adv Microb Physiol  
Adv Parasitol  
Adv Photochem  
Advis Leaflet Minist Agric Fish Food (Edinb)  
AEN Dep Agric Eng Univ Ky Coop Ext Serv  
Afrikanerbes J  
AGR Ky Univ Dep Agron  
Agrar Tud Egy Kozl (Godollo)  
Agrarwirtschaft  
Agric Adm  
Agric Econ Rep Dep Agric Econ Mich State Univ  
Agric Econ Rep Dep Agric Econ N D Agric Exp Stn N D State Univ  
Agric Econ Rep Econ Res Serv U S Dep Agric  
Agric Econ Res  
Agric Educ  
Agric Eng (St Joseph, Mich)  
Agric Environ  
Agric Handb U S Dep Agric  
Agric Hist  
Agric Horticulture  
Agric Inf Bull U S Dep Agric  
Agric Ital  
Agric Meteorol  
Agric Pak  
Agric Res  
Agric Situation (Washington)  
Agrichem Age  
Agricole (Marches Agric)  
Agricuture (Paris)  
Agrinews [Botswana]  
Agroanimalia  
Agrochemophysics  
Agro-Ecosystems (Amsterdam)  
Agrokem Talajtan  
Agrokhemiiia  
Agrologist  
Agron J  
Agron Mimeo Cornell Univ Coll Agric Dep Agron  
Agron Trop (Paris)  
Agroplantae  
Aktuel Litinf Obstbau Berlin Tech Univ Bibl  
Aliment Anim  
Alimenta  
Allg Dtsch Imkerztg  
Allg Forstztg  
Am Bee J  
Am Christmas Tree J  
Am Dairy Rev  
Am For  
Am J Agric Econ  
Am J Bot  
Am J Clin Nutr  
Am J Physiol  
Am J Public Health  
Am J Vet Res  
Am Potato J  
Am Sociol Rev  
Am Veg Grow  
Amis Roses  
An Edafol Agribiol  
An Inst Cer Pentru Prot Plant  
An Inst Nac Invest Agrar, Ser Prod Veg  
Anal Biochem  
Anal Chim Acta  
Anal Situacion Agric Sinaloa  
Anat Rec  
Angew Bot  
Angew Makromol Chem  
Anim Behav  
Anim Blood Groups Biochem Genet  
Anim Breed  
Anim Husb  
Anim Quar  
Ann Am Acad Polit Sci Soc  
Ann Amelior Plant  
Ann Appl Biol  
Ann Arid Zone  
Ann Bot  
Ann Entomol Fenn  
Ann Fac Med Vet Pisa  
Ann Genet Sel Anim  
Ann Geogr  
Ann Inst Sper Valorizzazione Technol Prod Agric (Milano)  
Ann Med Vet  
Ann N Y Acad Sci  
Ann Nutr Aliment  
Ann Parasitol Hum Comp  
Ann Pharm Fr  
Ann Sci Text Belg  
Ann Soc Entomol Que  
Ann Tech Agric  
Ann Zool Fenn  
Ann Zootech  
Annot Bibl Commonw Bur Agric Econ  
Annu Rep Int Inst Land Reclam Improv  
Annu Rep Secr State Hort Soc Mich  
Annual (Pear Grow League Inc)  
APHIS-91 U S Anim Plant Health Insp Serv  
Apiacta  
Apidologie  
Appl Biochem Microbiol  
Appl Microbiol  
Arb Osterreich Kurator Landtech  
Arboric Fruit  
Arch Biochem Biophys  
Arch Environ Health  
Arch Naturschutz Landschaftsforsch  
Arch Toxikol  
Arch Zool Exp Gen  
Arnoldia  
Arg Esc Vet (Bela Horizonte)  
Arg Inst Biol (Sao Paulo)  
Arb Foren Skogstradsfor Inst Skogsforbatt  
ARS-nE U S Agric Res Serv Northeast Reg  
ARS-S U S Agric Res Serv South Reg  
Astarte  
Atmos Environ  
Atoll Res Bull  
Auburn Vet  
Aust Beekeep  
Aust Entomol Mag  
Aust For  
Aust J Agric Res  
Aust J Chem  
Aust J Dairy Technol  
Aust J Plant Physiol  
Aust J Zool  
Aust Orchid Rev  
Aust Vet J  
Aust Water Resour Counc Tech Pap  
Avian Dis  
B Agric Exp Stn Max C Fleischmann Coll Agric Univ Nev Reno  
B Coop Ext Programs Univ Wisc  
Bakers Dig  
Baromfiipar  
Baromfitenyestzes  
Bedrijfsontwikkeling  
Ber Landwirtschaft (Hamburg)  
Berita Selulosa  
Better Crops Plant Food  
Biatas, The Tillage Farmer  
Bibliogr Ser Inst Pap Chem  
Biene  
Bienenpflege  
Bienenvater  
Bienenwelt  
Big Farm Manage  
Bi-moon Res Can For Serv  
Biochem Biophys Res Commun  
Biochem Genet  
Biochem J  
Biochem Physiol Pflanz BPP  
Biochemistry (Easton)  
Biochim Biophys Acta  
Biochimie  
Bioelectrochem Bioenerg  
Biol Conserv  
Biol Neonate  
Biol Plant  
Biol Rev  
Biol Zentralbl  
Biol Zh Arm  
Biologia, Ser B Zool  
Biologia, Ser C Vesobecna Biol  
Biologico  
Biom Praxim  
Biom 2  
Biophys J  
BIOS  
BioScience  
Biol Warz  
Bull Gl Bot Sada  
Bull Moskensk O Va Ispyt Prir, Otd Biol  
Bull Vses Ord Lenina Inst Rastenevov Im N I Vavilova  
Blumea  
Bois Forests Trop  
Boissiera  
Bol Agric  
Bol Didat Esc Super Agric Luiz Queiroz  
Bol Intern Divulg Estac Exp Agropecu Rafaela  
Bol Tec Inst Pesqui Agropecu Sul (Pelotas)  
Bot Kozl  
Bot Mag  
Bot Not  
Bot Rev  
Br Bee J  
Br J Cancer  
Br Poult Sci  
Br Vet J  
Bras Flores  
Brauwelt  
Brew Dig  
Brewing & Distilling Int  
Broil Ind  
Broteria, Ser Cienc Nat  
Bull A S P S (Afr Suc Plant Soc)  
Bull Acad Pol Sci, Ser Sci Biol  
Bull Agric Exp Stn Auburn Univ  
Bull Agric Exp Stn Div Agric Univ Arkansas  
Bull Agric Exp Stn Univ Del  
Bull Agric Rwanda  
Bull Am Mus Nat Hist  
Bull Anc Eleves Ec Meun ENSMIC (Ec Natl Super Meun Ind Cereal)  
Bull B Agric Exp Stn Okla State Univ  
Bull CETIOM (Cent Tech Interprof Ol Metrop)  
Bull CI Sci, 5e Ser Acad R Belg  
Bull Conn Agric Exp Stn  
Bull Coop Ext Serv Ohio State Univ  
Bull Dep Agric Econ S C Agric Exp Stn Clemson Univ Coop Mark Econ Div Econ Res Serv U S Dep Agric  
Bull Div Agric Sci Univ Calif Agric Exp Stn  
Bull Environ Contam Toxicol  
Bull Fac Agric Univ Miyazaki  
Bull Gov For Exp Stn (Tokyo)  
Bull Grain Technol  
Bull ICID (Int Comm Irrig Drain)  
Bull Indian Soc Soil Sci  
Bull Inf CNEEMA (Cent Natl Etud Exp Mach Agric)  
Bull Inst Agric Res Tohoku Univ  
Bull Inst Fr Cafe Cacao  
Bull Inst R Sci Nat Belg  
Bull Inst Radiat Breed  
Bull Kyoto Univ For



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- Bull La State Univ Agric Mech Coll Dep  
Agron Agric Exp Stn  
Bull Landbouwproefstn Suriname  
Bull Mens Soc Linn Lyon  
Bull Miss Agric For Exp Stn  
Bull Morris Arbor  
Bull Natl Inst Agric Sci, Ser C Plant  
Pathol Entomol  
Bull Natl Sci Mus (Tokyo)  
Bull Res Div, Va Polytech Inst State  
Univ  
Bull Sci Inst Text Fr  
Bull Seoul Natl Univ For  
Bull Soc Bot Fr  
Bull Soc Chim Fr  
Bull Soc Entomol Fr  
Bull Soc Sci Nat Ouest Fr  
Bull Soc Sci Vet Med Comp Lyon  
Bull Storrs Agric Exp Stn Coll Agric  
Nat Resour Univ Conn Storrs  
Bull Tech Inf Minist Agric (Paris)  
Bull Tohoku Natl Agric Exp Stn  
Bull Trimest Acad Soc Lorraines Sci  
Bull Trimest Soc For Franche Comte  
Prov Est  
Bull Univ Maine Orono Life Sci Agric  
Exp Stn  
Bull W H O  
Bull W Va Univ Agric Exp Stn  
Bull Water Resour Res Cent Va Polytech  
Inst State Univ  
Bull Wildl Dis Assoc  
(Bulletin) Univ Conn Coop Ext Serv  
Bovar  
C Coop Ext Serv Max C Fleischmann  
Coll Agric Univ Nev Reno  
C R Held Seances Acad Sci, Ser D Sci  
Nat  
C R Seances Soc Biol Fil Publ Concours  
Cent Natl Rech Sci  
C T R L Publ new ser (Cotton Technol  
Res Lab)  
Cacao Atual  
Cah Ing Agron  
Cah Med Vet  
Calif Health  
Calif Sugar Beet  
Calif Vet  
Calif West States Grape Grow  
Can Agric  
Can Agric Eng  
Can Entomol  
Can For Ind  
Can Home Econ J  
Can J Biochem  
Can J Bot  
Can J Chem  
Can J Microbiol  
Can J Plant Sci  
Can J Public Health  
Can J Soil Sci  
Can J Zool  
Candollea  
Cane Grow Q Bull  
Carbohydr Res  
Cas Morav Mus Vedy Prir  
Cashew News Teller  
CCP F A O  
Cell Mass Inst Technol  
Cell Tissue Res  
Cereal Chem  
Cereal Foods World  
Cereal Sci Today  
Checklist Beetles Can U S Mex Cent Am  
West Indies North Am Beetle Fauna  
Proj  
Chem Biol Interactions  
Chem Bot Classif Proc Nobel Symp  
Chem Chem Ind  
Chem Eng News  
Chem Ind (Lond)  
Chem N Z  
Chem Nat Compd  
Children Today  
Chromosoma  
Cienc Al Dia Soc Venez Cienc Nat  
Circ Agric Exp Stn Auburn Univ  
Circ Clemson Univ Coop U S Dep Agric  
Ext Serv  
Circ Coop Ext Serv Coll Agric Univ Ill  
Circ Coop Ext Serv Mont State Univ  
Circ Fla Agric Exp Stn Inst Food Agric  
Sci Univ Fla Gainesville  
Circ La State Univ Agric Mech Coll  
Agric Exp Stn  
Citograph  
Citrus Ind  
Citrus Sub-Trop Fruit J  
Citrus Veg Mag  
Clays & Clay Miner  
Clin Vet  
Collect Czech Chem Commun  
Commonw For Rev  
Commun Soil Sci Plant Anal  
Comp Biochem And Physiol  
Coop Econ Insect Rep  
Coop Ext Pub La State Univ Agric Mech  
Coll Coop Ext Serv  
Cotton Gin Oil Mill Press  
Cotton Grow Rev  
Cow Moos  
Crops Soils  
Ctry Life  
Cultivar  
Cultivator  
Curr Sci  
Cytobiologie  
Cytologia  
Czas Geogr  
Dairy Farmer  
Dairy Herd Manage  
Dairy Ind  
Dan Bot Ark  
Dan Erhvervsfjerkræ  
Dansk Kemi  
Def Veg  
Dev Biol  
Dig Int J Gastroenterol  
Dokl Acad Sci U S S R, Earth Sci Sect  
Dokl Akad Nauk Az Ssr  
Dokl Vses Akad S-kh Nauk  
Ditch Forstn  
Ditch Lebensm Rundsch  
Ditch Milchwirtsch  
Ditch Molk Zig  
Ditch Muller Zig  
DTW (Dtsch Tierarztl Wochenschr)  
Ecol Res Ser EPA U S Environ Prot  
Agency  
Ecologist  
Econ Agric  
Econ Hist Rev  
Econ Rep Univ Minn Dep Agric Appl  
Econ  
Effluent Water Treat J  
Ekon Sov Ukr  
Endeavour  
Endocrinology  
Entomol Mitt Zool Mus Hamb  
Entomol Newsl Utah State Univ Ext  
Serv  
Entomol Z  
Environ Aff  
Environ Control Biol Seibutsu Kankyô  
choseu  
Environ Physiol Biochem  
Environ Pollut  
Environ Prot Technol Ser EPA U S  
Environ Prot Agency  
Environ Sci Res  
Environ Sci Tech  
Equip Tips  
Erdo  
Ernahrung (Wien)  
Essent Nematology  
Etud CNEEMA (Cent Natl Etud Exp  
Mach Agric)  
Eur J Biochem  
Eur J For Pathol  
Euro-Farm Bus  
Exp Agric  
Exp Parasitol  
Experientia  
Experientia  
Exploit Agrar  
Ext Bull Agric Ext Serv Univ Minn  
Ext Bull ASPAC Food Fert Technol  
Cent (Asian Pac Counc)  
Ext Bull Dep Agric South Aust  
Ext Circ Ext Serv Org State Univ  
Ext Fol Agric Ext Serv Univ Minn  
Ext Pam Agric Ext Serv Univ Minn  
Faipar  
Fam Health  
Farm Food Res  
Farm J (Calcutta)  
Farm Mach  
Farm Mech Stud G B Agric Dev Advis  
Serv  
Farmers Bull U S Dep Agric  
Farming Jap  
Farming Mech  
FAS-M U S Foreign Agric Serv  
FATUS (Foreign Agric Trade U S)  
Fauna Fenn Soc Fauna Flora Fenn  
Fauna, Nor Zool Foren Tidsskr  
Fed Proc Fed Am Soc Exp Biol  
Feddes Repert  
Feedlot Manage  
Fert News  
Fert Prog  
Fertil Steril  
Fette Seifen Anstrichm  
Fitoterapia  
Fiziol Rast (Mosk)  
Fiziol Rast (Sofia)  
Flora Fauna  
Florists Rev  
Focus Beef  
Folia For  
Folia Geobot Phytotaxon  
Folia Mendel  
Folia Microbiol  
Folia Parasit  
Food Cosmet Toxicol  
Food Eng  
Food Home Notes  
Food Manuf  
Food Technol  
Food Technol N Z  
Food Technol Rev  
For Agric Circ Coffee FCOF (U S Dep  
Agric)  
For Hist  
For Prod J  
For Sci  
For Tree Improv  
Forderungsdienst  
Foreign Agric  
Foreign Agric Circ, Grains FG, U S Dep  
Agric Foreign Agric Serv  
Foreign Agric Circ, Livest Meat FLM (U  
S Dep Agric)  
Foreign Agric Circ, Wool FW U S Dep  
Agric Foreign Agric Serv  
Foreign Agric U S Foreign Agric Serv  
Foret Conserv  
Foret (Neuchat)  
Forsk Prakt  
Fresenius Z Anal Chem  
Freshwater Biol  
Fruit Belg  
Fruit Var J  
Fruits & Abeilles  
Fruticultura  
FS Coop Ext Serv Oreg State Univ Oreg  
G Bot Ital  
G Trop Prod Inst (Lond)  
Gac Colmenar  
Gartneryekt  
Gayana, Bot  
Gaz Agric (Lourenco Marques)  
Gaz Agric (Luanda)  
Gaz Agric  
Gazdalkodas  
Gen Ser Colo State Univ Exp Stn (Fort  
Collins)  
Genet And Plant Breed  
Genet Res  
Genet Slechteni  
Genetics  
Genetika  
Geoderma  
Geol Soc Am Bull  
Geoponika  
Gestencil Versl Lab  
Tuinbouwplantenteelt  
Landbouwhogesch (Wageningen)  
Gesundheitswes Desinfekt  
Gidrotekh Melior  
Glean Bee Cult  
Gosamvardsana  
Goue Vag Golden Fleece  
Grapevine Calif Univ Berkeley Agric Ext  
Serv  
Great Basin Nat  
Great Plains Agric Counc Publ  
Green Scene  
Growth  
Grune  
Hajtatat Korai Termesztés  
Handb Physiol Am Physiol Soc  
Harvestore Farmer  
Health Phys  
Hereditas  
Heredity  
Hilgardia  
Hoards Dairym  
Holzforsch Holzverwert  
Holz-Kurier  
Home Econ Res J  
Home Gard Bull U S Dep Agric  
Hoppe Seylers Z Physiol Chem  
Hortus  
Houli Blanc  
Hum Org  
Hydrobiologia  
Hydrotech Constr  
I C A R Tech Bull, Agric Ser (Indian  
Counc Agric Res)  
Idaho Agric Res Prog Rep  
Ikoni Misul  
Ill Res  
Ill Teacher  
Ill Vet  
Imkerfreund  
In Cell Cycle Controls, G. M. Padilla, I.  
L. Cameron & A. Zimmerman, eds.  
In Communities Left Behind Alternatives  
for Development  
In Consumer Health and Product  
Hazards, S. S. Epstein & R. D.  
Grundy, eds.  
In Control of Arthropods of Medical and  
Veterinary Importance, R. Pal & R. H.  
Wharton, eds.  
In Developing the Subarctic Proceedings of  
a Symposium of the Congress of the  
International Geogr Union  
In Environ Variables Anim Exp. H.  
Magalhaes, ed.  
In Environmental Concern, A. W.  
Murch, ed.  
In Environmental Physiology, N. B.  
Slonim, ed.  
In Estudos sobre uma regio agricola  
Zona da Mata de Minas Gerais  
In Fire and Ecosystems, T. T. Kozlowski  
& C. E. Ahlgren, eds.  
In Historia Social da Agro-Industria  
Canavieira Museu do Acaucar  
In Informe final Reunion Technica  
Internacional sobre Ensenanza de la  
Veterinaria  
In Insect Diseases, G. E. Cantwell, ed.  
In Insolubilized Enzymes, M. Salmona,  
C. Saronio & S. Garattini, eds.  
In Lactation A Comprehensive Treatise, B.  
L. Larson & V. R. Smith, eds.  
In Liquid Scintillation Counting, P. E.  
Stanley & B. A. Scoggins, eds.  
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In Molluscicides in Schistosomiasis  
Control, T. C. Cheng, Ed.  
In Neoplasms Pathophysiol Actions  
In Nutrition Processed Foods American  
Medical Association  
In Our Green Heritage the South African  
Book of Trees, I. W. Ackerman, ed.  
In Seventy Generations of Selection for  
Oil and Protein In Maize, J. W.  
Dudley, ed.  
In Skogbruksforeningen av 1950  
In Sozialer Wandel in Jugoslawien  
Genossenschaften als Träger  
sozialistischer Reformpolitik auf dem  
Lande  
In The Cell Surface in Development, A.  
A. Moscona, ed.  
In The Contribution of Chemistry to  
Food Supplies  
Ind Alimant  
Ind Azucar  
Ind Obst Genuseverwert  
Ind Veg Manage  
Indian Cof  
Indian Farming  
Indian For  
Indian J Nutr Diet  
Indian J Power River Val Dev  
Indian Pulp Pap  
Indian Silk  
Indian Vet J  
Inf Agric (Paris)  
Inf Bull Inst Maize & Wheat Improv  
Cent  
Inf Fitopatol  
Inf Ser N Z For Serv  
Inf Tec INTA, (Inst Nat Tecnol  
Agropecu Manfredi)  
Inf Tech (Paris)  
Inf Zootec  
Infect Immun  
Insect World Dig  
Insects Soc  
Inst Prod Floresta Cortica  
Instrucces Prat Inst Technol Alimant  
Int Arch Allergy Appl Immunol  
Int Biodyn Bull  
Int Holzmarkt  
Int J Appl Radiat Isot  
Int J Biochem  
Int J Insect Morphol Embryol  
Int J Nucl Med & Biol  
Int J Protein Res  
Int Labor Rev  
Int Sugar J  
Int Symp Fytofarm Fytat

- Int Z Landwirtschaft  
Interdep Publ ID Univ Ky Coop Ext  
Serv  
Introd Akklim Rast Akad Nauk Uzb  
SSR Bot Sad  
Invest Prog Agric  
Ir Agric Cream Rev  
Ir Vet J  
Irrig Power  
Isr J Bot  
Isr J Entomol  
Isr J Technol  
Izv Akad Nauk BSSR, Ser Biol Nauk  
Izv Akad Nauk SSSR, Ser Biol  
J Agric Chem Soc Jap  
J Agric Econ Dev  
J Agric Food Chem  
J Agric (Melb)  
J Agric Sci (Setagaya)  
J Agric South Aust  
J Agric Educ  
J Ala Acad Sci  
J Am Anim Hosp Assoc  
J Am Chem Soc  
J Am Diet Assoc  
J Am Oil Chem Soc  
J Am Soc Hortic Sci  
J Am Vet Med Assoc  
J Am Water Works Assoc  
J Amer Med Assoc  
J Anat  
J Anim Sci  
J Appl Chem USSR  
J Appl Ecol  
J Appl Meteorol  
J Appl Nutr  
J Appl Physiol  
J Appl Polym Sci  
J Arboric  
J Assoc Off Anal Chem  
J Assoc Public Anal  
J Aust Entomol Soc  
J Biol Chem  
J Bromeli Soc  
J Cell Biol  
J Chem Soc, Perkin Trans I  
J Chem U A R  
J Chromatogr  
J Colloid Interface Sci  
J Comp Physiol  
J Dairy Sci  
J Econ Entomol  
J Elisha Mitchell Sci Soc  
J Embryol Exp Morphol  
J Endocrinol  
J Entomol, Ser B, Taxon  
J Environ Health  
J Exo Bot  
J Exp Zool  
J Ext  
J Fac Agric Hokkaido Univ  
J Fish Res Board Can  
J Flour Anim Feed Milling  
J Food Sci Tech  
J Food Technol  
J For  
J For Suisse  
J Gen Microbiol  
J Gen Physiol  
J Gen Virol  
J Hok Univ Educ, Sect II B  
J Hokkaido For Prod Res Inst  
J Home Econ  
J Hydrol  
J Hyg  
J Immunogenet  
J Indian Acad Wood Sci  
J Inst Brew  
J Invertebr Pathol  
J Jap Bot  
J Jap Wood Res Soc  
J Leisure Res  
J Mar Biol Assoc U K  
J Med Entomol  
J Microsc (Paris)  
J Milk Food Technol  
J Mol Biol  
J N Y Entomol Soc  
J Natl Assoc Coll Teach Agric  
J Nutr  
J Nutr Educ  
J Nutr Sci Vitaminol  
J Org Chem USSR  
J Parasitol  
J Pathol (Edinb)  
J Physiol  
J Polym Sci, Part A 1 Polym Chem  
J Polym Sci, Part C Polym Symp  
J R Hortic Soc  
J R Soc West Aust
- J Range Manage  
J Reprod Fertil  
J Res Lepid  
J Res U S S Geol Surv  
J Small Anim Pract  
J Soc Dairy Technol  
J Soil Sci  
J Takeda Res Lab  
J Tenn Acad Sci  
J Test Eval  
J Text Inst  
J Texture Stud  
J Trop Pediatrics Environ Child Health  
J Ultrastruct Res  
J Virol  
J Wash Acad Sci  
Jaarversl K I Cent Comm Toezicht  
Uitvoering K I Dieren  
Jap J Ecol  
Jap J Sanit Zool  
Jap J Vet Sci  
Jap J Zootech Sci  
Jordbrukskon Medd  
Justus Liebig's Ann Chem  
Kakteen Sukkulente  
Kartoffelbau  
Kem Ind  
Keszth Agrartud Fosk Kozl  
Kiel Milchwirt Schaffl Forschungsber  
Kleintier Prax  
Kolloid Z  
Kooperation  
Krafflutter  
KTBL-Schr (Kurator Tech Bauwes  
Landwirtschaft)  
Kunststoffe  
La Agric  
Land Anim  
Lait  
Lancet  
Landbo Nyt  
Landbruksdende  
Landtechnik  
Landwirtschaft Forsch  
Lantbrukskogs Medd, Ser A  
LC (Listy Cukrov)  
Leaf Dep Agric Tech Serv (Pretoria)  
Leaf North Irel Adv Serv Minist Agric  
Leaf North Scotl Coll Agric  
Lebensm Ind  
Lesn Cas  
Lesn Prom St'  
Lesn Stud Vysk Ustav Lesn Hospod  
Lesovedenie  
Life Sci  
Limnol Oceanogr  
Lipids  
L'Ouest Apic  
LTC (Publ) Univ Wis (Land Tenure  
Cent)  
M A F E S Res Highlights (Miss Agric  
For Exp Stn)  
Mach Agric Trop  
Mach Allatorv Lapja  
Mar Biol  
Mark Transp Situation  
Materialsamml Agrarsoz Ges  
Md Agri-Views  
Meat Ind (Pretoria)  
Mech Roln  
Mech Zemed  
Med Water  
Medd Jordbruket Inst  
Meded Landbouwhogesch Wageningen  
Meded R P V Z (Rijksproefstn  
Zaadcontrole)  
Mehezet  
Meijeritiet Aikak  
Melanderia  
Meld Landbruket Inst Vollebekk Nor  
Meld Nor Landbrukskogs  
Mem Fac Agric Kagawa Univ  
Mem Mus Nat Hist Nat, Nouv Ser, Ser  
B Bot (Paris)  
Memo Nor Landbrukskogs Inst  
Driitlaere Landbruksokom  
Memo Tec Seer Recurso Hidraul Dir  
Gen Dist Riego Dir Estad Estud Econ  
Methods Enzymol  
Metod Zavadi Vysled Vyzk Praxe  
Mezhdunar S-kh Zh  
Mezogard Tech  
Mich Acad  
Mich Farm Econ  
Micon  
Mikol Fitopatol  
Mikrokosmos  
Milchwissenschaft  
Milk Ind
- Mimeogr Ser Univ Arkansas Agric Exp  
Stn  
Minn Agric Econ  
MIRINZ Meat Indus Res Inst N Z  
Misc Publ U S Dep Agric  
Misc Publ W Va Univ Agric Exp Stn  
Mitt Bundesforschungsanst Forst  
Holzwirtschaft  
Mitt Forstl Bundes-Versuchsanst Wien  
Mitt Geb Lebensmittellunters Hyg (Bern)  
Mitt Obstbauversuchsanst Alten Landes  
Mitt Versuchsstn Garungsgewerbe Wien  
Mljekarstvo  
Mod Vet Pract  
Mol Gen Genet (MGG)  
Molk-Ztg Welt Milch  
Molochn Miasn Skotovod (Kiev)  
Molochn Prom St  
Mon Bull Bermud Dep Agric Fish  
Monatsh Veterinarmed  
Monogr Biol  
MP Tex A M Univ Tex Agric Exp Stn  
Mundo Abejas  
Mushroom J  
Mutat Res  
Mycologia  
N D Farm Res  
N Z J Agric  
N Z J Exp Agric  
N Z J Geol Geophys  
N Z Soil News  
Nahrung  
Nat Belg  
Nat Can  
Natl Food Situation  
Natl Hist  
Natl Wool Grow  
Nav Stores Rev Terpene Chem  
Neth J Agric Sci  
Neth J Plant Pathol  
Neth J Sea Res  
Neue Bienenzucht  
New Phytol  
New York Times Mag  
News Assoc Off Seed Anal  
Nihon Sanchi Gakkai Nippon Sanchigaku  
J Seric Sci Jap  
Nihon Shokuhin Eisei Gakkai J Food  
Hyg Soc Jap  
Niawatori-no-kenkyu Nowatori No  
Kenkyusha (Poul J Poul Res Assoc)  
Nogyo Gijutsu  
Nord Hyg Tidskr  
Nord Veterinarmed  
Notul Tech Cent Ecol For  
Nouv Avic  
Nowe Roln  
Nucleic Acids Res  
Nuova Vet  
Nurs Homes  
Nutr Metab  
Nutr Rev  
Occas Rep Va Div For Dep Conserv  
Econ Dev  
Occas Ser Manitoba Univ Dep Agric  
Econ Farm Manage  
Oecologia  
Ohio Rep Res Dev Agric Home Econ  
Nat Resour  
Okla Curr Farm Econ  
Oleagineux  
Onderstepoort J Vet Res  
Oreg Agri Rec  
Org Gard Farming  
Outstate Test Circ Agric Exp Stn Univ  
Nebr Lincoln  
P R Tex Agric Exp Stn Coll Stn  
PA U S Dep Agric  
Pac Insects Monogr  
Pac Cottons  
Pak J For  
Panpac Entomol  
PAN'S Pest Artic News Summ  
Pap Proc R Soc Tasman  
Pap Puu  
Papier  
Parasitology  
Paysans  
Pchelarstvo  
Pchelovodstvo  
Pediatrics  
Pedobiologia  
Pest Control Circ Sunkist Grow  
Pestic Biochem Physiol  
Pestic Monit J  
Pesticides  
Photosynthetica  
Phycologia  
Physiol Plant  
Phytochemistry
- Phytopathol Z  
Phytopathology  
Phytoprotection  
Pig Farming  
Plant Chron  
Plant Dis Rep  
Plant Med  
Plant Pathol  
Plant Physiol  
Planta  
Plants Alive  
PM Coop Ext Serv Iowa State Univ  
Pochvoedenie  
Pochvozn Agrokhim  
Pol Pismo Entomol  
Pol'nohospodarstvo  
Polymer  
Postepy Nauk Roln  
Postgrad Med J  
Poult Pointers  
Pr Inst Lab Badaw Przem Spozyw  
Pract Nutr  
Prakt Tier  
Prep Biochem  
Principes  
Prroda (Sofia)  
Proc Agric Res Inst (Wash, D C)  
Proc Annu Meet Am Wood Preserv  
Assoc  
Proc Annu Meet North Cent Branch  
Entomol Soc Am  
Proc Easter Sch Agric Sci Univ  
Nottingham  
Proc Helminthol Soc Wash  
Proc Indian Acad Sci, Sec B  
Proc Indian Sci Congr  
Proc Int Congr Int Radiation Prot Assoc  
Proc Iowa Acad Sci  
Proc Natl Acad Sci U S A  
Proc Northeast Weed Control Control  
Conf  
Proc Nutr Soc  
Proc R Soc Lond, B Biol Sci  
Proc Soil Conserv Soc Am  
Proc Soil Sci Soc Am  
Proc Trans Br Entomol Nat Hist Soc  
Proceedings of Annual Meeting Southern  
Regional Avian Environmental Physiol  
and BioEng Study Group  
Process Biochem  
Prod Agric Fr  
Prod R D  
Prod Nutr Foremost Food Co  
Prog Agric Vitic  
Prog Farming  
Prog Rep Colo State Univ Fort Collins  
Exp Stn  
Propri Terrienne  
Protoplasma  
Przegi Zool Pol Tow Zool  
Prakhivnitsvo  
Publ (Manit Dep Agric)  
Publ Agric Can  
Publ Inst Forestal (Sao Paulo)  
Publ N Z Meat Wool Boards Econ Serv  
Publ R Univ Wis Coll Agric Life Sci  
Q Bull Assoc Food Drug Off U S  
Q Coop Ext Serv Univ Ariz  
Q J Agric Econ  
Q J Fla Acad Sci  
Q J R Meteorol Soc  
Q J Taiwan Mus  
Quad Merceol Inst Merceol Univ Bologna  
Qual Plant Plant Foods Human Nutr  
Queensl Agric J  
Queensl Herb Contrib Queensl Herb  
R Agric Exp Stn Max C Fleischmann  
Coll Agric Univ Wren  
R T I A (Rev Tech Econ Ind Aliment)  
Radiat Res  
Ranch Mag  
Res Dom Mus  
Remote Sens Environ  
Reordenamento  
Rep Northeast Aerial Appl Conf  
Rep Proc Annu Meet West Can Soc  
Hortic  
Rep Water Resour Cent Calif Univ  
Res Bull Univ Ga Coll Agric Exp Stn  
Res Bull Univ Mass Amherst Coll Agric  
Agric Exp Stn  
Res Farming (Raleigh)  
Res Note NC USDA For Serv North  
Cent For Exp Stn For Serv U S Dep  
Agric  
Res Pap Fed Repub Niger, Fed Dep For  
Res, For Ser  
Res Pap Land Tenure Cent Univ Wis  
Madison  
Res Rep For Res Inst



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- Res Rep Mich State Univ Agric Exp Stn  
Res Rep Mont Agric Exp Stn Mont State Univ  
Res Rep Texas Univ Nat Fibers Econ Res  
Res Rep Utah Agric Exp Stn  
Res Summ Ohio Agric Res Dev Cent  
Res Vet Sci  
Resour Bull PNW USDA For Serv Pac Northwest For Range Exp Stn (U S Dep Agric)  
Ressources  
Restaurant Bus  
Rev Agric (Lourence Marques)  
Rev Biol Trop  
Rev Can Biol  
Rev Ceres  
Rev Elev Med Vet Pays Trop  
Rev Fac Agron Univ Cent Venez  
Rev Fac Agron Univ Cent Venez Fac Agron  
Rev Fac Agron Univ Zulia Maracaibo  
Rev Ferment Ind Aliment  
Rev For Fr  
Rev Fr Apic  
Rev Fr Corps Gras  
Rev Horti Suisse  
Rev Horti Vitic  
Rev Iber Parasitol  
Rev Lait Fr  
Rev Med Vet (Toulouse)  
Rev Mycol  
Rev Vet Can  
Rheinische Bienenztg  
Rhod Agric J  
Rhod Vet J  
Riv Econ Agrar  
Riv Ital Sost Grasse  
Riv Parasitol  
Riv Zootec Vet  
Rural Educ Rev  
Russ Chem Rev  
S Afr For J  
S Afr J Sci  
S Afr Sugar J  
S D Farm Home Res  
Sadovod Vinograd Vinodel Mold Sakh Prom-st'  
Samaru Misc Pap  
Sante Abeille  
Sarsia Univ Bergen  
Saturday Rev/world  
School Mgt  
Schr Schweiz Ver Tierz  
Schriften Bundes Lebensmittelrecht Lebensmittelkd  
Schriften Flurbereinigung  
Schweiz Arch Tierheilkd  
Schweiz Bienen-Zeitung  
Schweiz Landtech Dtsch Ausg  
Schweiz Z Obst Weinbau  
Sci Agric Bohemoslov  
Sci Am  
Sci Bull Fac Agric Kyushu Univ  
Sci Cult  
Sci Rep Kyoto Prefect Univ Agric  
Sci Rep Tohoku Univ Seven Ser (Geogr)  
Science  
Scott Beekeep Scott Beekeep Assoc  
Scott For  
Search, Sci Technol Soc  
Seed Sci Technol  
Ser Tec IIAA (Inst Invest Agron Angola)  
Serv Rep Farmer Coop Serv U S Dep Agric  
Short Term Leaf Minist Agric Fish Food (Middlesex)  
Sib Vestn S-kh Nauk  
Silva Fenn  
Sikh Biol  
Skoven  
Smithsonian  
Socioecon Environ Stud Ser EPA- US Environ Prot Agency Off Res Dev  
Soil Assoc  
Soil Biol Biochem  
Soil Conserv  
Soil Sci  
Soil Sci Plant Nutr  
Soul Taehakkyo Nonmunjip, B Shang Nong Ge  
South Econ Rev  
South J Agric Econ  
Southeast Asian J Trop Med Public Health  
Southwest Nat  
Sov Genet  
Sov Plant Physiol  
Soybean Dig  
Span  
Spec Rep Mo Agric Exp Stn  
Spec Rep Oreg State Univ Agric Exp Stn  
Spec Rep Va Polytech Inst State Univ  
Wood Res Wood Constr Lab  
Staff Pap Dep Agric Appl Econ Univ Minn  
Stain Technol  
Stat Bull U S Dep Agric  
Stat Rep World Agric Prod Trade  
State Vet J  
Stud Inf, Lesn  
Stud Inf Vet  
Sub Cell Biochem  
Succulenta  
Sucr Fr  
Sugar Technol Rev  
Sulphur Inst J  
Suom Elainlaakari  
Sver Utsadesforen Tidskr  
SV-Zeitung (Vereins Cdtsh Schaferhunde)  
Swed J Agric Res  
Sylvan  
Syst Zool  
Tabak  
TAG (Theor Appl Genet)  
Taiwan J Vet Med Anim Husb  
Taiwan Sugar  
Taiwan Water Conserv  
Talanta  
Tappi (Tech Assoc Pulp Paper Ind)  
Tech Bull Agric Res Serv U S Dep Agric  
Tech Bull Dep Nat Resour (Madison)  
Tech Bull Miss State Univ Agric For Exp Stn  
Tech Commun Commonw Bur  
Helminthol Commonw Agric Bur (Farnham R)  
Tech Commun Dep Agric Tech Serv (Pretoria)  
Tech Lait  
Tech Pap For Res Inst N Z For Serv  
Tech Pub Aust Soc Dairy Technol  
Teho  
Tenn Farm Home Sci Prog Rep  
Terra  
Tetrahedron  
Tetrahedron Lett  
Tex Vet Med J  
Text Res J  
Tierzucht  
Tierzucht  
Tijdschr Diergeneesk  
Tijdschr Entomol  
Today's Educ  
Toxicol Appl Pharmacol  
Toxicology  
Toxicon  
Tr Inst Mikrobiol Virusol  
Tr Prikl Bot Genet Sel  
Training and Dev J  
Trans Am Microsc Soc  
Trans ASAE Gen Ed (Am Soc Agric Eng)  
Trans Mycol Soc Jap  
Treubia  
Trop Agric (Colombo)  
Trop Anim Health Prod  
Trop Geogr Med  
Trop Sci  
Trop Stored Prod Inf  
Tulane Stud Zool  
Turk Bull  
Tutkimuseloslost Valt Maatalouskoneiden Tutkimuslaitos  
U S D A For Serv Res Pap FPL  
U S D A For Serv Res Pap NE (U S Dep Agric Northeast For Exp Stn)  
U S D A For Serv Res Pap S E For Serv  
U S Dep Agric Southeast For Exp Stn  
U S D A For Serv Resour Bull NE (U S Dep Agric Northeast For Exp Stn)  
U S For Serv Res Pap RM (Rocky Mt For Range Exp Stn)  
Ugeskr Agron  
Ugeskr Agron Hortonomer  
Ukr Bot Zh  
Ukr Khim Zh  
Ulmo Nemfuyo Transkei  
Umschau  
Univ Calif Publ Bot  
USDA For Ser Gen Tech Rep PNW Pac Northwest For Range Ext Stn U S Dep Agric  
USDA For Ser Res Note NE (U S Dep Agric Northeast For Exp Stn)  
USDA For Serv Gen Tech Rep FPL U S For Prod Lab  
USDA For Serv Res Note PNW (Pac Northwest For Range Exp Stn U S Dep Agric)  
USDA For Serv Res Note SE (U S Dep Agric For Serv Southeast For Exp Stn)  
USDA For Serv Res Pap NC (U S Dep Agric North Cent For Exp Stn)  
USDA For Serv Res Pap PNW (Pac Northwest For Range Expstn U S Dep Agric)  
USDA For Serv Res Pap PSW (Pacific Southwest For Range Exp Stn U S Dep Agric)  
USDA For Serv Res SO (South For Exp Stn U S Dep Agric)  
USDA For Serv Resour Bull NC (U S Dep Agric North Cent For Exp Stn)  
VAE (Va Agric Econ)  
Vara Palsd  
Veclartsvi  
Veld & Flora  
Versl Inst Biol Enscheidk Onderz Landbouwgew (Wageningen)  
Versl Landbouwk Onderz Cent Landbouwpubl Landbouwdoc  
Vestis Latv PSR Zinat Akad  
Vestn Stat  
Vestsi Ser Sel'skagaspad Navuk Akad BSSR  
Vet Bull  
Vet Econ  
Vet Ital  
Vet Med Nauki  
Vet Pathol  
Vet Res  
Veterinaria (Madr)  
Veterinarstvi  
Vinodel Vinograd SSSR  
Virology  
Visn Sil'sk'okhodsp Nauki  
Vitamin  
VM SAC (Vet Med Small Anim Clin)  
Water & Waste Treat  
Water Pollut Control  
Water Res  
Water Resour J Econ Comm Asia & Far East St/Ecalf/Ser. C  
Water Resour Res  
Weed Sci  
Weight Watchers  
Whats New Plant Physiol  
Wilhelm Roux Arch Entwicklungsmech Org  
Wines Vines  
Wood Ind  
Wood Sci Technol  
World Anim Rev  
World Crops  
Worlds Poult Sci J  
Wynboer  
Z Allg Mikrobiol  
Z Angew Entomol  
Z Arbeitsgem Osterr Entomol  
Z Ausl Landwirtsch  
Z Ernahrungswiss  
Z Kulturtech Flurbereinigung  
Z Lebensm Unters Forsch  
Z Morphol Tiere  
Z Pflanzenphysiol  
Z Pflanzenzucht  
Z Tierphysiol Tierernahr Futtermittelkd  
Zemlerobstvo  
Zentralbl Bakteriol Parasit Infektiowskr Hyg, Zweite Naturwiss Abt  
Zentralbl Bakteriol Parasitenkd Infektionsk Hyg, I Abt Orig, reihe A Med Mikrobiol Parasitol  
Zentralbl Veterinarmed, Reihe A  
Zesz Probl Postepow Nauk Roln  
Zhivotnovodstvo  
ZL (Zahradnicke Listy)  
Zool Beitr  
Zool Jahrb, Abt Anat Ontog Tiere  
ZOON J Zool Inst Zool Univ Upps  
Zootec Vet  
Zuchtihygiene (Berl)  
Zuchtungskunde

# MAIN ENTRY SECTION

## GENERAL AGRICULTURE AND RURAL SOCIOLOGY

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- 156991** S16 H8A32  
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The causes of the disappearance and reappearance of induced sublethal mutations in *Drosophila melanogaster* in the course of a number of generations. Abeleva, E A; Burychenko, G M; Dzhamukhadze, N F; Myasnyankina, E N *Sov Genet* 8 (11): 1463-1465. Nov 1972 (Transl. Oct 1974)

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TA4.A453  
Soil foundations for concrete and reinforced-concrete hydraulic structures. Evdokimov, P D; Bushkanets, S S; Gol'din, A L; Lipovetskaya, T F *Hydrotech Constr* 5: 409-418. Ref. May 1974

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## SOIL RESOURCES AND MANAGEMENT

TA4.A453  
Effect of water inertia in penstocks on regulating characteristics of hydraulic units. Kiselev, G S *Hydrotech Constr* 4: 337-341. Apr 1974

## WATER RESOURCES AND MANAGEMENT

TA4.A453  
Determination of wave forces on submerged shore-protection breakwaters in shallow waters. Natal'chishin, G D *Hydrotech Constr* 4: 353-356. Apr 1974

TA4.A453  
Underwater pipelines for transportation of water across the sea. Savvin, YU M *Hydrotech Constr* 4: 369-371. Apr 1974

TA4.A453  
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The contents of the "Bibliography of Agriculture" have been expanded starting with this issue. With the cooperation of Macmillan Information and the National Agricultural Library, we have been able to identify the various sections of the *B of A* which were in the original publication issued by the U.S. Department of Agriculture prior to 1970, but which were dropped by Macmillan. Several of these are now included. There are separate sections of USDA, FAO, Experiment Station, and Extension Service publications, with full bibliographic data; there is a list of Translated Publications; and there is a list of Journal Titles indexed in each issue of the *B of A*.

In addition, no titles have been truncated, and each personal or corporate author of each publication has been included in each main entry citation.

*The Subject Index will be issued monthly as a separate publication, at separate cost, and will be based on an expanded Subject Authority File.* Each entry will now include the complete title of each journal article cited. Oryx Press will discontinue the Macmillan practice of allowing each title only one line, which has resulted in title truncation of both the end and the beginning of almost every title. In addition, the Subject Authority File will be published under the title "Bibliography of Agriculture Thesaurus" as a separate hardbound publication.

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1. The Main Entry Section now contains each personal and/or corporate author, and is no longer truncating titles. Does this additional information make utilization of the citations more effective? \_\_\_\_\_

2. Accession numbers are no longer being assigned to duplicate entries. Are you in agreement with this change in policy? \_\_\_\_\_

3. We have added five new Main Entry Sub-Sections. Please indicate if the addition of these sections make the *B of A* more useful to you.

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Translated Publications \_\_\_\_\_

4. Would you like to see a separate section of cataloging records (books, new serials, and other materials) added to the "Bibliography of Agriculture" even though these materials are covered by the National Agricultural Library Catalog which is published by Rowman and Littlefield. Please include the reasons for your answer.

\_\_\_\_\_

\_\_\_\_\_

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5. We have added a list of the Journal Title Abbreviations Cited in each issue of the *B of A*. Is it of any value to you? \_\_\_\_\_ Would it be of any additional value if it included the volume and issue number of the journal cited? \_\_\_\_\_

6. We are now publishing the Subject Index to the "Bibliography of Agriculture" as a separate monthly publication, at a separate subscription price. We would like your comments on this publishing decision. Would you rather see the two *B of A* publications combined at an annual subscription price of \$170.00 plus postage, or issued as two separate publications of \$85.00 each, plus postage. Please give the reasons for your answers.

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7. The format of the entries in the Subject Index to the "Bibliography of Agriculture" has been changed. Complete titles are now given under each control word. No titles are being truncated, and the titles appear in alphabetical order under each control word. This change will result in many more pages of Subject Index entries than before. Are you in agreement with these changes? \_\_\_\_\_ Please give your reasons for answering yes or no.

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# INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

## CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into nine sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, and a personal author index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

## MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

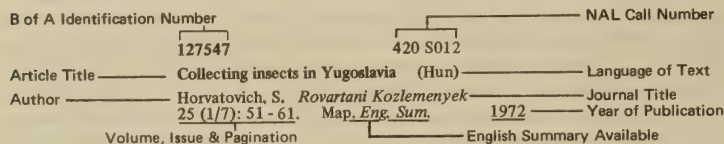


Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

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## MAIN ENTRY SUB-SECTIONS

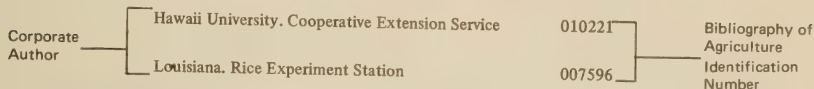
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications; State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries appear in The Main Entry Section as well as in the sub-sections.

## GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

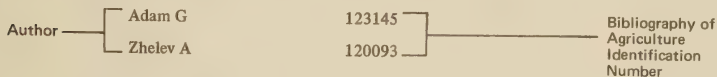
## CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



## AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



## AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

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 ARS-S U S Agric Res Serv South Reg  
 ARS-W Agric Res Serv U S Dep Agric  
 Annu  
 Atalanta Norv  
 Atmos Environ  
 AUARA (Annamalai Univ Agric Res  
 Annu)  
 Ausbild Berat Land Hauswirtsch  
 Aust Beekeeper  
 Aust J Biol Sci  
 Aust J Bot  
 Aust J Chem  
 Aust J Plant Physiol  
 Aust J Zool  
 Aust Orchid Rev  
 Aust Vet J  
 Av Aliment Mejora Anim  
 Avian Pathol  
 Bakers Dig  
 Baromfiapar  
 Barons  
 Bauhinia  
 Bayer Landwirtschafts Jahrb  
 Bedrijfsontwikkeling  
 Ber Naturhist Ges Hannover  
 Beret Forsogslab (Kobenh)  
 Beret Statens Foderstofkontrol  
 Berl Munch Tierarztl Wochenschr  
 Biatas, The Tillage Farmer  
 Bibl Wiad IMUZ (Inst Melior Uzytkow  
 Zielon)  
 Biene  
 Bienvater  
 Biennvater  
 Biennwelt  
 Bienn Rev Natl Inst Res Dairy  
 Biochem Biophys Res Commun  
 Biochem Genet  
 Biochem Physiol Pflanz BPP  
 Biochem Syst  
 Biochemistry (Easton)  
 Biochim Biophys Acta  
 Biochimie  
 Biol J Linn Soc  
 Biol Notes Ill Nat Hist Surv State Ill  
 Dep Regist Educ Nat Hist Surv Div  
 Biol Pr, Vydatelstvo Slov Akad Vied  
 Biol Reprod  
 Biol Zh Arm  
 Biologico  
 Biometrics  
 Biophysics  
 BIOS  
 BioScience  
 Biol Inst Ochr Rosl (Poznan)  
 Bull Vses Ord Lenina Inst Rastenievod  
 Im N I Vavilova  
 Bl Natursch
- Blatter Landtech  
 Bol Inst Tecnol Aliment  
 Bol Mus Soc Argent  
 Bot Rev  
 Bovine Pract  
 Br J Nutr  
 Br Med J  
 Brantweinwirtschaft  
 Brauwelt  
 Brauwissenschaft  
 Brew Dig  
 Broil Ind  
 Bryologist  
 Bull A S P S (Afr Suc Plant Soc)  
 Bull Agric Exp Stn Auburn Univ  
 Bull Agric Exp Stn Div Agric Univ  
 Arkansas  
 Bull Am Dahlia Soc  
 Bull Am Meteorol Soc  
 Bull Anc Elevs Ec Meun ENSMIC (Ec  
 Natl Super Meun Ind Cereal  
 Bull Biol Fr Belg  
 Bull Chugokou Agric Exp Stn  
 Bull Colo State Univ Exp Stn Fort  
 Collins  
 Bull Conn Forests  
 Bull Conn Agric Exp Stn New Haven  
 Bull Coop Ext Serv Mont State Univ  
 Bull Coop Ext Serv Univ Ga Coll Agric  
 Bull Dep Agric Econ N D Agric Exp  
 Stn N D State Univ Agric Appl Sci  
 Bull Entomol Soc Am  
 Bull Environ Contam Toxicol  
 Bull Fac Fisheries Hokkaido Univ  
 Bull Fla Agric Exp Stn Inst Food Agric  
 Sci Univ Fla Gainesville  
 Bull Gos Nikitsk Bot Sad  
 Bull INACOL (Inst Natl Amelior  
 Conserves Legumes)  
 Bull Inf CNEEMA (Cent Natl Etud Exp  
 Mach Agric)  
 Bull Inf Rizic Fr  
 Bull Inf Stn Exp Avic Ploufragen  
 Bull Inst R Sci Nat Belg  
 Bull Mens Soc Linn Lyon  
 Bull Minist Agric Fish Food (Lond)  
 Bull Mont Agric Exp Stn Mont State  
 Univ  
 Bull Nipon Vet Zootech Coll  
 Bull Off Int Epizoot  
 Bull Sci Inst Text Fr  
 Bull Sci, Sect A Sci Nat Tech Med Cons  
 Acad Sci Arts RSF Yougosl  
 Bull Soc Bot Fr  
 Bull Soc Chim Belg  
 Bull Soc Chim Fr  
 Bull Soc R For Belg  
 Bull Soc Sci Vet Med Comp Lyon  
 Bull Tex Agric Exp Stn Coll Stn  
 Bull Torrey Bot Club  
 Bull Trimest Soc Mycol Fr  
 Bull Univ Ill Coll Agric Agric Exp Stn  
 Bull Vet Inst Pulawy  
 Bull W H O  
 Bull Wash (State) Agric Exp Stn  
 Bull Wash State Univ Ext Serv  
 Buvar  
 C Coop Ext Serv Kans State Univ  
 C Coop Ext Serv Max C Fleischmann  
 Coll Agric Univ Nev Reno  
 C Ext Div Univ Mo  
 C R Acad Bulg Sci



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

- C R Hebd Seances Acad Sci, Ser D Sci Nat  
C R Seances Soc Biol Fil Publ Concours  
Cent Nat Rech Sci  
C R Trav Lab Carlsberg  
Cae Soc Mex  
Cah Ing Agron  
Cah Sci  
Cajanus  
Calcif Tissue Res  
Calif Agric  
Calif Hortie J  
Calif Plant Pathol Univ Calif Agric Ext  
Calif Vet  
Cameroun Agric Pastor For  
Can Field Nat  
Can J Agric Econ  
Can J Biochem  
Can J Bot  
Can J For Res  
Can J Physiol Pharmacol  
Can J Zool  
Carbohydr Res  
Cell Differ  
Cell Immunol  
Cell Tissue Res  
Celul Hortie  
Centralbl Gesamte Forstwes  
Cereal Chem  
Cereal Sci Today  
Chem Ber  
Chem Biol Interactions  
Chem Commun  
Chem Nat Compd  
Chem Phys Lipids  
Chem Senses Flavor  
Chemosphere  
Chesapeake Sci  
Chromosoma  
Cienc Cult Soc Bras Para Progr Cienc  
Circ Clemson Univ Coop U S Dep Agric  
Ext Serv  
Circ Coop Ext Ser Univ Ga Coll Agric  
Circ Coop Ext Serv Coll Agric Univ Ill  
Circ Fla Agric Exp Stn Inst Food Agric  
Sci Univ Fla Gainesville  
Circ N C Agric Exp Stn  
Circ S C Agric Exp Stn Clemson Univ  
Circ Tex For Serv Part Tex A M Univ  
Syst  
Citrograph  
Citrus Ind  
Citrus Veg Mag  
Clin Exp Immunol  
Clin Pediatrics  
Collect Czech Chem Commun  
Collect Ecol  
Commun Soil Sci Plant Anal  
Communication  
Comp Biochem And Physiol  
Compost Sci  
Compr Virol  
Commun Ser Prod Veg Inst Nac Invest  
Agrar  
Confect Prod  
Contrib U S Natl Herb  
Cornell Vet  
Cotton Grow Rev  
CRC Crit Rev Toxicol (Chem Rubber  
Co)  
Crop Sci  
Cryobiology  
Ctry Life  
Cuad Bot Canaria  
Kukoripar  
Cultiv Mod  
Cultivar  
Curr Sci  
Cytobios  
Cytogenet Cell Genet  
Dairy Farmer  
Dairy Herd Manage  
Dairy Sci Handb  
Dairy Situation (Wash, D C)  
Dairy Tales  
Dairyfarm Dig  
Dan Erhvervsvejkræ  
Dan Hedeselsk  
Dan Skovforen Tidsskr  
Dep Inf Rep Texas A M Univ Dep  
Agric Econ Rural Soc  
Dep Tech Rep Tex A M Univ Dep  
Agric Econ Rural Soc  
Dep Vet Q S Roger Bellon  
Del Nye Dan Landbrug  
Diabetes  
Dig Int J Gastroenterol  
Diplomandwirt  
Dokl Akad Nauk Az Ssr  
Dokl Akad Nauk BSSR  
Dokl Akad Nauk SSSR  
Dtsch Agrartechnik  
Dtsch Lebensm Rundsch  
Dtsch Milchwirtsch  
Dtsch Molb Ztg  
Dtsch Tierarztl  
DTW (Dtsch Tierarztl Wochenschr)  
East Afr Agric For J  
Eatonia  
Ecol Food Nutr  
Ecol Res Ser EPA U S Environ Prot  
Agency  
Ecology (Durham)  
Econ Med Anim  
Econ Rev  
Effluent Water Treat J  
Egypt J Genet Cytol  
Ekon Sel'sk Khoz  
Ekon Sov Ukr  
Electron Microsc Enzymes  
Elev Insemination  
EM Coop Ext Serv Coll Agric Wash  
State Univ  
Endocrinology  
Entomol Bl  
Entomol Exp Appl  
Entomol Obozr  
Entomol Rec J Var  
Entomol Rev  
Entomol Z  
Environ Child Health  
Environ Entomol  
Environ Prot Technol Ser EPA U S  
Environ Prot Agency  
Environ Res  
Environ Sci Res  
Enzyme  
Enzymes  
Equip Dev Test Rep U S Dep Agric For  
Serv Equip Dev Cent (Calif)  
Equip Tips  
ERFA (Erdgazdasag Faipar)  
Ernahrungsforschung  
Ernahrungswirtschaft  
ERS U S Dep Agric Econ Res Serv  
Essays Biochem  
Essex Soc Rev  
Estuarine Coastal Mar Sci  
Estud Ens Doc Junta Invest Ultramar  
Euphytica  
Eur J Biochem  
Eur J For Pathol  
Eur J Pharmacol  
Evol Biol  
Exp Agric  
Exp Anim  
Experientia  
Ext Bull E Coop Ext Serv Mich State  
Univ  
Ext Circ Ext Serv Oreg State Univ  
Ext Fol Agric Ext Serv Univ Minn  
Ext Pam Agric Ext Serv Univ Minn  
Ext Program Rep Univ Minn Agric Ext  
Serv  
Ext Serv Rev U S Dep Agric  
Fact Sheet Oreg State Univ Ext Serv  
Faipar  
Fam Health  
FAO Agric Dev Pap  
FAO Nutr Stud  
Farm Lett  
Farm Mach  
Farm Power Equip  
Farmers Bull U S Dep Agric  
Fast Food  
FEBS Lett (Fed Eur Biochem Soc)  
Fed Proc Fed Am Soc Exp Biol  
Feddes Repert  
Feed Ind  
Feldwirtschaft  
Fennia  
Field Drain G B Minist Agric Fish Food  
Field Strk Rec CSIRO Div Plant Ind  
Finn Chem Lett  
Fire Control Notes  
Fish Bull U S Dep Commer Natl Ocean  
Atmos Adm Natl Mar Fish Serv  
Fiziol Zh SSSR  
Fjorfe  
Fla Entomol  
Fleisch  
Fleischerei  
Fleischwirtschaft  
Flora Neotrop Monogr  
Folia For  
Folia Microbiol  
Food Cosmet Toxicol  
Food Nutr  
Food Process Ind  
Food Prod Dev  
Food Res Inst Stud Agric Econ Trade  
Dev  
Food Serv  
Food Technol  
Food Technol Aust  
Food Technol Mil Significance Foreign  
Rep  
Food Technol N Z  
Food Technol Rev  
For Econ  
For Resour News  
For Serv Res Pap Wo U S Dep Agric  
For Tree Ser Commonw Aust Dep Natl  
Dev For Timber Bur  
Forderungsdienst  
Forecast Home Econ  
Foreign Agric Circ, Citrus Fruits, FCF  
U S Dep Agric Foreign Agric Serv  
Foreign Agric Circ, Dried Pulses FDP  
(U S Dep Agric)  
Foreign Agric Circ, FDAP (U S Dep  
Agric)  
Foreign Agric Circ, Honey FHON (U S  
Dep Agric)  
Foreign Agric Econ Rep U S Dep Agric  
Econ Res Serv  
Foreign Agric U S Foreign Agric Serv  
Forma Functio  
Forsch Berat, Reihe B Wiss Ber  
Landwirtschaft Fak Univ Bonn  
Forsch Sitzungsber Akad Raumforsch  
Landespl  
Forsk Prakt  
Forst Holzwirt  
Forstarchiv  
Forsttech Inf  
Forstwiss Centralbl  
Fragm Faun Pol Akad Nauk Inst Zool  
Fragm Florist Geobot  
Frugtavleren  
Fruit Veg Facts Pointers  
Fruiti World Mark Grow  
Fruits  
Fruits & Abeilles  
Ga Agric Res  
Gac Vet  
Gart Kleintierzucht, C Imker  
Gart Kleintierzucht, D Kleintierzucht  
Gartenbau  
Gartnerykt  
Gaz Apic  
Genus  
Gen And Comp Endocrinol  
Genet Res  
Genetics  
Geobios (Jodhpur)  
Geoderma  
Geol Surv Water Supply Pap  
Gesunde Pflanz  
Getreide Mehl Brot  
Gewasbescherming  
Gidrotekh Melior  
Glean Bee Cult  
Gordian  
Grain Prod News  
Grasas Aceites  
Great Lakes Entomol  
Grundlagen Fortschr Lebensmittelunter  
Grundlagen Landtech  
Grune  
Haven  
Helgolander Wiss Meeresunter  
Herba Hung  
Hereditas  
Highlights Agric Res  
Hilgardia  
Hist Ser Can Dep Agric  
Histochem J  
Histochemie  
Ho Dep Hortie Univ Ky Coll Agric  
Coop Ext Serv  
Hoards Dairy  
Hodowla Rosl Aklim Inasiennic  
Holzforsch Holzverwert  
Holzforschung  
Holzindustrie  
Holzucht  
Home Gard Bull U S Dep Agric  
Hommes Terre Eau  
Hoppe Seylers Z Physiol Chem  
Hum Org  
Huspar  
I P E F (Inst Pesqui Estud Florestais)  
Ikon Selskoto Stop  
Ill Commer Feed Lab Anal  
Ill Teacher  
Imkerfreund  
Immunochimistry  
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Recursos Naturales Renovables  
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Problems. H. H. Biggs & R. L.  
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K. W. McNutt, eds.  
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physiological and technological  
importance. G. G. Birch & K. J.  
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W. N. Hess, ed.  
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Ind Conserv  
Ind Leche  
Indian J Agric Res  
Indian J Biochem  
Indian J Chem  
Indian J Exp Biol  
Indian J Pharm  
Indian J Reg Sci  
Indian Sugar  
Indian Vet J  
Inf Bot Ital  
Inf Card Clemson Univ Coop U S Dep  
Agric Ext Serv  
Inf Card Clemson Univ Ext Serv  
Inf Inst Skogsforbattning  
Skogsstradsforbattning  
Infect Immun  
Insect Biochem  
Insp Rep Purdue Univ Agric Exp Stn  
Int Arch Allergy Appl Immunol  
Int J Parasitol  
Int Rev Cytol  
Int Sugar J  
Iowa State J Res  
Iowa State Univ Vet  
Ir For  
Ir J Agric Res  
Irrigazione  
Izv Tsentrl Khelminol Lab Bulg Akad  
Nauk  
Izv Vyssh Uchebn Zaved, Pishch  
Tekhnol  
J Agric Food Chem  
J Agric (Melb)  
J Agric Sci (Camb)  
J Agric Trop Bot Appl  
J Agric Univ P R  
J Air Pollut Control Assoc

- J Am Diet Assoc  
 J Am Leather Chem Assoc  
 J Am Oil Chem Soc  
 J Am Vet Med Assoc  
 J Am Water Works Assoc  
 J Amer Med Assoc  
 J Anal Chem USSR  
 J Anat  
 J Anim Ecol  
 J Appl Bacteriol  
 J Appl Chem USSR  
 J Appl Meteorol  
 J Appl Nutr  
 J Arbores  
 J Assoc Off Anal Chem  
 J Bacteriol  
 J Biol Chem  
 J Bryol  
 J Can Diet Assoc  
 J Cell Biol  
 J Cell Sci  
 J Cent Agric Exp Stn (Konosu)  
 J Chem Educ  
 J Chem Soc, Perkin Trans I  
 J Chromatogr  
 J Coffee Res  
 J Comp Physiol  
 J Consumer Aff  
 J Dairy Res  
 J Environ Qual  
 J Exp Biol  
 J Exp Bot  
 J Exp Zool  
 J Fac Fish Anim Husb Hir Univ  
 J Food Distrib Res  
 J Food Technol  
 J For Suisse  
 J Ga Entomol Soc  
 J Histochem Cytochem  
 J Home Econ  
 J Immunol  
 J Immunol Methods  
 J Indian Chem Soc  
 J Insect Physiol  
 J Int Res Commun Med Sci  
 J Invertebr Pathol  
 J Jap Bot  
 J Jap Soc Horticult  
 J Jap Vet Med Assoc  
 J Jap Wood Res Soc  
 J Lipid Res  
 J Membr Biol  
 J Milk Food Technol  
 J Mol Biol  
 J Morphol  
 J Natl Inst Agric Bot  
 J Nutr  
 J Org Chem  
 J Org Chem USSR  
 J Parasitol  
 J Pediatrics  
 J Phycol  
 J Physiol  
 J Protozool  
 J R Soc West Aust  
 J Range Manage  
 J Reprod Fertil  
 J Res Haryana Agric Univ  
 J Res Lepid  
 J Sch Health  
 J Sci Food Agric  
 J Sci Soil Manure  
 J Small Anim Pract  
 J Soc Agric Mach Jap  
 J Soil Water Conserv  
 J Suisse Apicul  
 J Taiwan Agric Res  
 J Text Inst  
 J Theor Biol  
 J Ultrastruct Res  
 J Univ Newcastle Upon Tyne Agric Soc  
 J Virol  
 J Water Pollut Control Fed  
 J Zool  
 Jap J Breed  
 Jap J Microbiol  
 Jap J Parasitol  
 Jap Poul Sci  
 Jarmuvek, Mezogazd Gepek  
 Jordbruksekon Medd  
 Kakteen Sukkulente  
 Kartoffelbau  
 Kemia-Kemi (Helsinki)  
 Kenya Conf  
 Kern Crop Inf Univ Calif Agric Ext Serv  
 Kertgazdasag  
 Keszthi Agrartud Fosk Kozl  
 Kitchen Planning  
 Kooperation  
 Kosmos
- Kosmos, Ser A Biol  
 Kraftfutter  
 Kromosomo  
 Ky Agribus Spotlight Ky Univ Coop Ext  
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 La Vie Agric Meuse  
 Lab Anim Sci  
 Lab Anim United Bus Publ (N Y)  
 Lab Pract  
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 Land Forstwirtschaft Forsch Osterr  
 Land Resour Bibliogr  
 Landbo Nyt  
 Landbouwmecanisiatie  
 Landbruksidende  
 Landscape Plann  
 Landtechnik  
 Landbrukskugsk Medd, Ser A  
 Landmanner  
 Laporan Dir Jenderal Kehutanan  
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 Leaf Aust Dep Agric For Timber Bur  
 Leaf Coop Ext Serv Univ Arkansas Div  
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 Leaf North Irel Adv Serv Minist Agric  
 Leben Erde  
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 Lohnunterne Land Forstwirtschaft  
 L'Ouest Apic  
 LSU For Notes  
 LSU Wood Util Notes (La State Univ)  
 LWT (Lebensmitt Wissenschaftl)  
 M A F E S Res Highlights (Miss Agric  
 For Exp Stn)  
 Macaroni J  
 Mach Agric Trop  
 Maelkeritidende  
 Maelkeritidende Udgivet Dan Meierist  
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 Mark Bull U S Dep Agric  
 Mark Res Rep U S Dep Agric Econ Res  
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 Meat Process  
 Mech Ageing Dev  
 Med Parazitol Parazit Bolezn  
 Med Water  
 Meded Fac Landbouwwet Rijksuniv Gent  
 Meded Overdrukken Landbou Econ  
 Inst  
 Meded Proefstn Fruitteelt  
 Wilhelminadort  
 Meded Rijksinst Zuiver Afvalwater  
 Medlemsbl Dan Dyrlaegeforen  
 Meieriposten  
 Meierbrugete Uge-Nyt  
 Meld Landbruksstek Inst Vollenbekk Nor  
 Meld Nor Landbrukskugsk  
 Mem Am Entomol Inst  
 Mem Coll Agric Ehime Univ  
 Mem Inst Protein Res Osaka Univ  
 Mem Natl Sci Mus (Tokyo)  
 Memo Tec Sec Recurso Hidraul Dir  
 Gen Dist Riego Dir Estad Estud Econ  
 Memorabil Zool  
 Methods Enzymol  
 Metod Zavod Vysled Vyzk Praxe  
 Mezogazd Tech  
 Mezogazd Vilagirodalom  
 Mich Farm Econ  
 Mich Sci Action  
 Microbiology  
 Micromesica  
 Microscope  
 Mikrobiol Zh  
 Milch Prax Rindermast  
 Milestones  
 Mimeogr Ser Univ Arkansas Agric Exp  
 Stn  
 Minn Agric Econ  
 Minn For Res Notes  
 MIRINZ Meat Indus Res Inst N Z  
 Misc Publ U S Dep Agric  
 Misc Rep Cent Overseas Pest Res  
 Misc Rep Life Sci Agric Exp Stn Univ  
 Maine Orono  
 Misc Rep Minn Agric Exp Stn
- Mitt DLG (Dtsch Landwirtschaft Ges),  
 Ausg A  
 Mitt Florist Sozial Arbeitsgem  
 Mitt Schweiz Entomol Ges  
 Mod Vet Pract  
 Modern Schools  
 Mol Gen Genet (MGG)  
 Monatsh Veterinarmed  
 Mondo Latte  
 Monogr Bot  
 Monogr INIA (Inst Nac Invest Agrar)  
 Mosc Univ Chem Bull  
 Mosq Syst News Lett  
 Muhle Mischfuttertech  
 Mukomol'no Elevat Prom-st'  
 Mushroom J  
 Natl Res  
 Mykosen (Berlin)  
 N C Agric Stat  
 N S W Dairyman  
 N Z J Bot  
 N Z J Dairy Sci Technol  
 Nachrichtenblatt Dtsch Pflanzenschutzdt  
 Nat And Resour  
 Nat Belg  
 Nat Can  
 Nat Res J  
 Natl Geogr Soc Res Rep  
 Natl Hist  
 Nature  
 Naturwiss Rundsch  
 Nauka Pol  
 Naunyn Schmiedbergs Arch Pharmakol  
 Ned Bosbouw Tijdschr  
 Ned Melk Zuivelvrijdschr  
 Neuroendocrinology  
 New Engl J Med  
 New Entomol  
 New Phytol  
 New Sci (London)  
 News Farmer Coop  
 News Rep Nat Res Council  
 NIBEM Jaarb (Natl Inst Brouwerst)  
 Mout Bier TNO)  
 Nihon Sanshi Gakkai Nippon Sanshigaku  
 J Seric Sci Jap  
 Nippon Kagaku Kaishi  
 Nogyo Gijutsu  
 Nor Hagedit  
 Nor Nat  
 Nor Pelsdyrbil  
 Nor Skogind  
 Nord Mejeritidsskr  
 North Staffordsh J Field Stud  
 Northwest Sci  
 Nota INF Mex Dir Gen Inventario Nac  
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 Novenytermeles  
 Nowe Roln  
 Nutr News  
 Nutr Rep Int  
 Nutr Rev  
 NUTRAH  
 Ocas Paper Farlow Herb Cryptogam  
 Bot  
 Oecologia  
 Osterr Wasserwirtschaft  
 Off Insp Life Sci Agric Exp Stn Univ  
 Maine Orono  
 Ohio J Sci  
 Oil Palm News  
 Oils Oilseeds J  
 Okajimas Folia Anat Jap  
 Oleagineux  
 Oper Res  
 Oriental Insect  
 Outstate Test Circ Nebr Agric Exp Stn  
 Ovina  
 P R Tex Agric Exp Stn Coll Stn  
 PA U S Dep Agric  
 Pac Discov  
 Pag Bull  
 Pap Pua  
 Papier  
 Parazitologia  
 Pchelarstvo  
 Pecan Q  
 Pediatrics  
 Pestic Biochem Physiol  
 Pflanzenarzt  
 Pflanzenschutzberichte  
 Pflugers Arch  
 Pharm Acta Helv  
 Photochem Photobiol  
 Photogramm Eng  
 Photogrammetria  
 Phys Zool  
 Physioli Plant  
 Physioli Plant Pathol  
 Physioli Veg
- Phytomorphology  
 Phytopathol Z  
 Phytopathology  
 Phytophytica  
 Pig Farming  
 Plant Cell Physiol  
 Plant Dis Rep  
 Plant Life  
 Plant Med Phytother  
 Plant Sci Lett  
 Plant Soil  
 Planta  
 Plants Alive  
 PM Coop Ext Serv Iowa State Univ  
 PNW Bull (Pac Northwest Coop Ext)  
 Pol'nopolodstvo  
 Pomol Fr  
 Potato Res  
 Poult Egg Situation  
 Poult Patter Agric Ext Serv Univ Minn  
 Poult Pointers  
 Power Farming  
 Pr Habilitacynje Poznan Akad Roln  
 Prac Kom Biol  
 Pract Nutr  
 Prakt Schadlingsbekampf  
 Prakt Tier  
 Prkl Biokhim Mikrobiol  
 Proc Annu Conf Southeast Assoc Game  
 Fish Comm  
 Proc Annu Meet Oreg Essent Oil Grow  
 League  
 Proc Entomol Soc Ont  
 Proc Indian Acad Sci, Sec B  
 Proc Inst Food Sci Technol (U K)  
 Proc Natl Acad Sci U S A  
 Proc R Soc Lond, B Biol Sci  
 Proc Soc Am For  
 Proc Soc Exp Biol Med  
 Process Biochem  
 Prog Agric Ariz  
 Prog Agric Viic  
 Prog Farming  
 Prog Rep Coll State Univ Fort Collins  
 Exp Stn  
 Prog Rep Ohio Dep Nat Resour Div  
 Lands Soil  
 Prog Rep Univ Ky Coll Agric Agric Ext  
 Stn Dep Agron  
 Progres Farmer Fla  
 Protistologica  
 Protoplasmia  
 Przegl Geogr  
 Przegl Hodowla  
 Publ Agric Can  
 Publ Bot Mus Natl Sci Nat Mus Natl  
 Can  
 Publ Fac Agron Univ Teheran  
 Pudoc Bull  
 Q Coop Ext Serv Univ Ariz  
 Radiat Environ Biophys  
 Radiobiology  
 Rapp Inst Virkeslara Skogshogsk  
 (Stockh)  
 Rapp Jordbræbtebingsavd  
 Landbrukskugsk  
 Rapp Sven Inst Konserveringsforsk  
 Rasen Turf/Gazon  
 Recl Med Vet  
 Rep Agric Exp Stn Univ Ariz  
 Rep Proj Dep Agron La State Univ  
 Agric Mech Coll Agric Exp Stn  
 Rep Univ N S W Water Res Lab  
 Res Bull Nebr Agric Exp Stn  
 Res Bull Ohio Agric Res Dev Cent  
 Res Bull Purdue Univ Agric Exp Stn  
 Res Bull Univ Ga Coll Agric Exp Stn  
 Res Pap Fed Repub Niger, Fed Dep For  
 Res, For Ser  
 Res Rep Ky Agric Exp Stn  
 Res Rep Mont Agric Exp Stn Mont State  
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 Res Rep N H Agric Exp Stn  
 Res Rep P OSU Agric Exp Stn (Okla  
 State Univ)  
 Res Rep Univ Ga Coll Agric Exp Stn  
 Res Vet Sci  
 Research N J Agric Exp Stn Rutgers  
 Univ State Univ N J  
 Rev Agric (Brux)  
 Rev Bras Entomol  
 Rev Bryol Lichenol  
 Rev Cafetalera  
 Rev Can Biol  
 Rev Cent Cien Rurais  
 Rev Cere  
 Rev Ecol Biol Sol  
 Rev Ferment Ind Aliment  
 Rev For Fr  
 Rev Fr Apic



# LIST OF JOURNAL TITLE ABBREVIATIONS CITED

Rev Fr Corps Gras	Tech Lait	What's New Home Econ
Rev Hortie Suisse	Teratology	Wiad Ekol
Rev Int Vivienda Rural	Termeszeti Vilaga	Wiad Parazytol
Rev Lait Fr	Termesztud Muz Evk	Wien Tierarztl Monatsschr
Rev Med Vet (B Aires)	Terminol Bull FAO	Wilhelm Roux Arch Entwicklungsmech
Rev Med Vet (Toulouse)	Terre Vie	Org
Rev Nutr Anim	Tetrahedron	Winzer
Rev Padur	Tetrahedron Lett	Wiss Z Math Naturwiss Reihe
Rev Port Cienc Vet	Theriogenology	Wiss Z Tech Univ Dres
Rev R Acad Cienc Exac Fis Nat Madr	Tidsskr Biavl	Wood Fibre
Rev Roum Virol	Tidsskr Plant	World Crops
Rev Suisse Agric	Tierarztl Umsch	World Soil Resour Rep
Rev Vet Venez	Tierra	World Wood
Rev Vinic Int	Tierzucht	Wydawn Wlasne Inst Zootech (Warsz)
Rheinische Bienenzng	Tierzuchter	Z Acker Pflanzenbau
Rice J	Tissue Cell	Z Allg Mikrobiol
Riso	Tolids Educ	Z Angew Entomol
Riv Biol	Tomvmandsbladet	Z Angew Zool
Riv Ing Agrar	Tombo	Z Ausl Wirtsch Matersamml
Riv Ital Sost Grasse	Tr Inst Eksp Biol Akad Nauk Kaz SSR	Z Kulturtech Flurbereinig
Riv Ortoflorofruttic Ital	Tr Mosk O-va Ispyt Prir Otd Biol	Z Lebensm Unters Forsch
Rocz Nauk Roln	Training	Z Med Mikrobiol Immunol
Rocz Nauk Roln, Ser D Monogr	Training Dev J	Z Morphol Tiere
Rocz Nauk Roln, Ser F Melior Uzytkow	Trans ASAE Gen Ed (Am Soc Agric Eng)	Z Naturforsch
Zielon	Trans Br Mycol Soc	Z Pflanzenernahr Bodenkd
Rocz Nauk Roln, Ser H Rybacka	Trans Ill State Acad Sci	Z Pflanzenphysiol
Rocz Panstw Zakl Hig	Trans Ky Acad Sci	Z Tierphysiol Tierernahr Futtermittelkd
Rodriguesia (Rio de Janeiro)	Trans North Am Wildl Nat Res Conf	Z Tierpsychol
Rostl Vyroba	Tree Plant Notes	Z Versuchstierkd
Rozpr Nauk Szk Gl Gospod Wiejsk (Warszawa)	Trop Agric (Guilford)	Zemed Tech
Rural Sociol	Trop Grassl	Zentralbl Bakteriell Parasitenkd
S Afr J Dairy Technol	Tropenlandwirt	Infektionskr Hyg, I Abt Orig, Reihe A
S Afr J Sci	Tsitologia	Med Mikrobiol Parasitol
Sante Abeille	U S D A For Serv Gen Tech Rep I N T	Zentralbl Bakteriell Parasitenkd
Saussurea	U S D A For Serv Range Exp Stn	Infektionskr Hyg, I Abt Orig, Reihe B
Sch Foodserv J	U S D A For Serv Res Pap FPI	Hyg Prav Med
Schlacht Viehhof Ztg	U S D A For Serv Res Pap NE (U S Dep Agric Northeast For Exp Stn)	Zentralbl Veterinarmed, Reihe B
Schriftenreihe Land Hauswirtschaft	U S D A For Serv Res Pap S E For Serv	Zesz Nauk Szk Gl Gospod Wiejsk
Auswert Informationd	U S D A For Serv Southeast For Exp Stn	Warsz, Ekon Organ Roln
Schweiz Arch Tierheilkd	U S D A For Serv Resour Bull SE (U S Dep Agric For Serv Southeast For Exp Stn)	Zesz Nauk Wyzsz Szk Roln Krakow, Zootech
Schweiz Bienen-Zeitung	U S For Serv For Pest Leaf	Zh Obsheh Biologi
Schweiz Landwirtschaft Forsch	U S For Serv Res Note RM (Rocky Mt For Range Exp Stn)	Zhivotnovud Nauki
Schweiz Landwirtschaft Monatsh	U S For Serv Res Pap RM (Rocky Mt For Range Exp Stn)	Zivocisna Vyroba
Schweiz Z Obst Weinbau	Ugeskr Agron Hortonomer	ZL (Zahradnicke Listy)
Sci Am	Ukr Biokhim Zh	Zool Beitr
Sci Cult	Umschau	Zool Jahrb, Abt Syst Okol Geogr Tiere
Sci Rev	Unasylva	Zool Scr
Science	Uroda	Zool Zh
Scott Beekeep Scott Beekeep Assoc	USDA For Serv Res Note NE (U S Dep Agric Northeast For Exp Stn)	Zoonosis
Seifen Ole Fette Wachse	USDA For Serv Res Pap PNW (Pac Northwest For Range Expstn U S Dep Agric)	Zucker
Ser Tec IIAA (Inst Invest Agron Angola)	USDA For Serv Res SO (South For Exp Stn U S Dep Agric)	
Ser Tec INTA Min Agr Ganad Nacion	USDA For Serv Resour Bull NC (U S Dep Agric North Cent For Exp Stn)	
Est Exp Reg Agr Parana (Inst Nac Tecnol Agropecu)	Ustred Vyzk Ustav Rostl Vyroby, Ved Pr Va For	
Short Term Leaf Minist Agric Fish Food (Middlesex)	Vcelar	
Sib Vestn S-kh Nauk	Vcelarstvi	
Snack Food	Veg Crops Ser Calif Univ Coll Agric	
Sov Afr Bee J	Dep Veg Crops	
Sobre Deriv Cana Azucar	Versuchsergeb Bundesanst Pflanzenbau	
Soil Biol Biochem	Samenpruf Wien	
Soil Conserv	Versuchsergeb Hoehere Bundeslehr Versuchsanst Gartenbau	
Soils Found	Vestis Latv PSR Zinat Akad	
Soobshch Akad Nauk Gruz SSR	Vestn Akad Nauk Kaz SSR	
South Indian Hortie	Vestn Moskovsk Univ, Biol Pochvoved	
Sov Chem Ind	Vestn Moskovsk Univ, Geogr	
Sov Genet	Vet Econ	
Sov J Dev Biol	Vet Glas	
Sov Plant Physiol	Vet Med (Prague)	
Soybean Dig	Vet Rec	
Soz Forstwirtschaft	Vet Sb	
Spec Rep Oreg State Univ Agric Exp Stn	Veterinaria (Madr)	
Specialmedd Upps Landbrukshogsk Inst	Veterinaria (Sarajevo)	
Lantbrukets Byggnadsteknik	Vie Milieu, Ser C Biol Terr	
Staff Pap Dep Agric Appl Econ Univ Minn	Vinodel Vinograd SSSR	
Stat Rep World Agric Prod Trade	Virology	
State Vet J	Vitamin	
Statens Vaxtskyddsanst Medd (Stockh)	Viz Kozl	
Steroids	Vopr Pitan	
Stn Bull Agric Exp Stn Univ Minn	Vopr Virusol	
Stud For Succ	VP X Environ Can For Serv	
Stud Inf, Ochr Rostl	War Hunger	
Stud Soc Sci Torun, Sect D Bot	Water Pollut Control	
Succulenta	Water Resour Bull	
Sven Papperstidn	Weed Res	
Sver Skogvardsforb Tidsskr	Weed Sci	
Svinskotiel	Weeds Trees Turf	
Tabakpflanz Osterr	Weight Watchers	
Tappi (Tech Assoc Pulp Paper Ind)	West J Med	
Taxon		
Tec Moli		
Tech Bull Agric Exp Stn Univ Minn		
Tech Bull Agric Res Serv U S Dep Agric		
Tech Bull Econ Serv Branch Queensl		
Dep Primary Ind		
Tech Bull N C Agric Exp Stn		
Tech Ind Cereal		

# MAIN ENTRY SECTION

## GENERAL AGRICULTURE AND RURAL SOCIOLOGY

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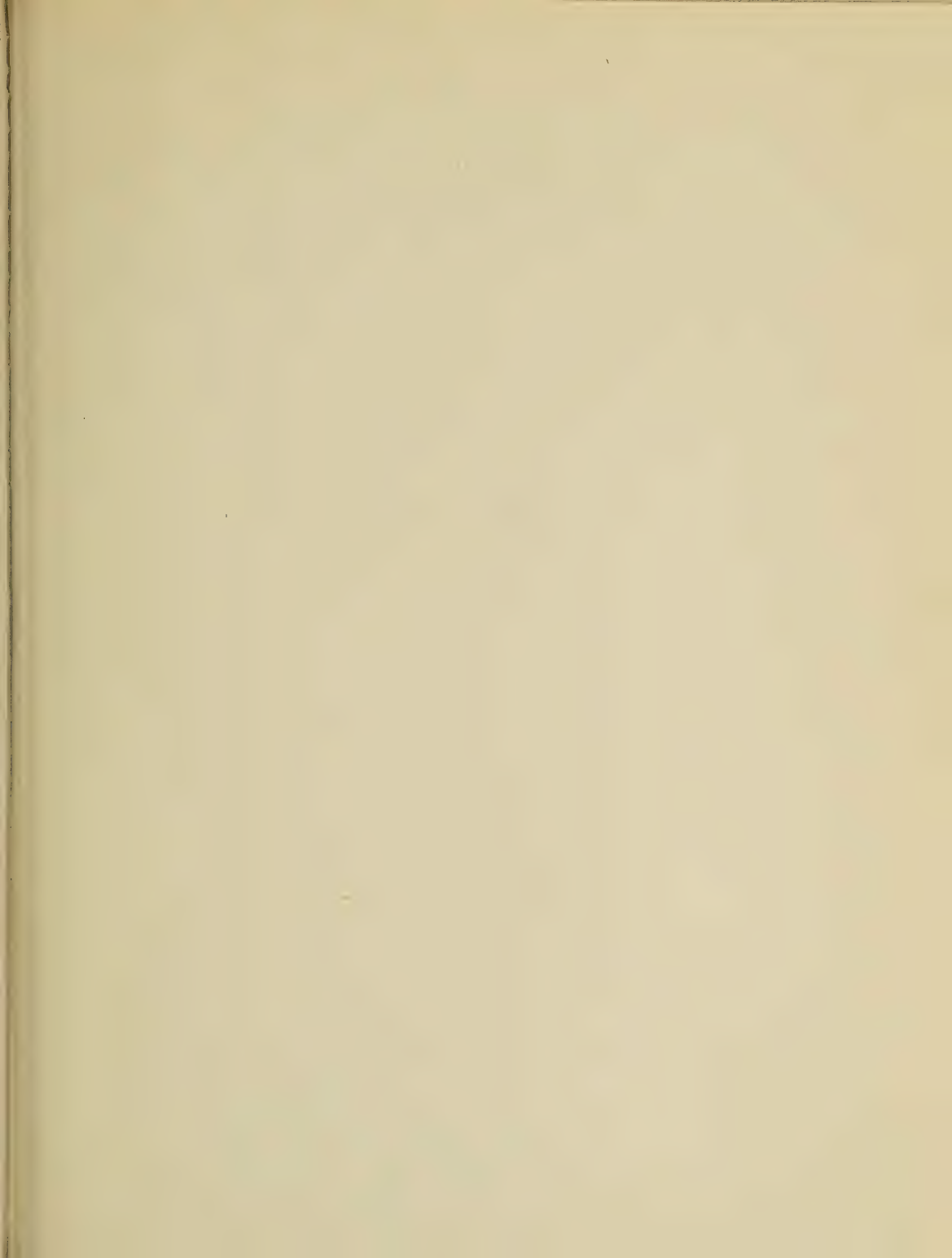
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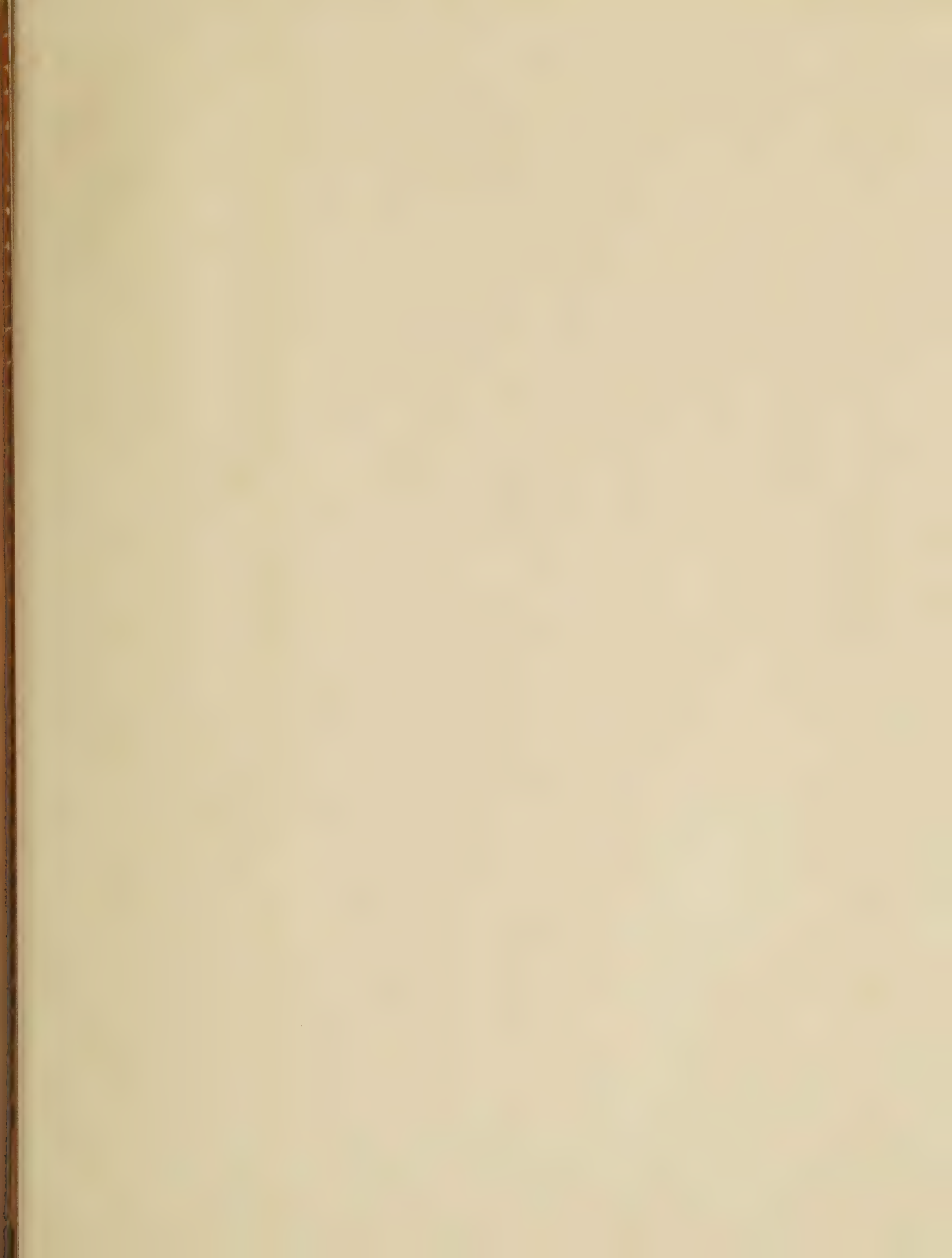
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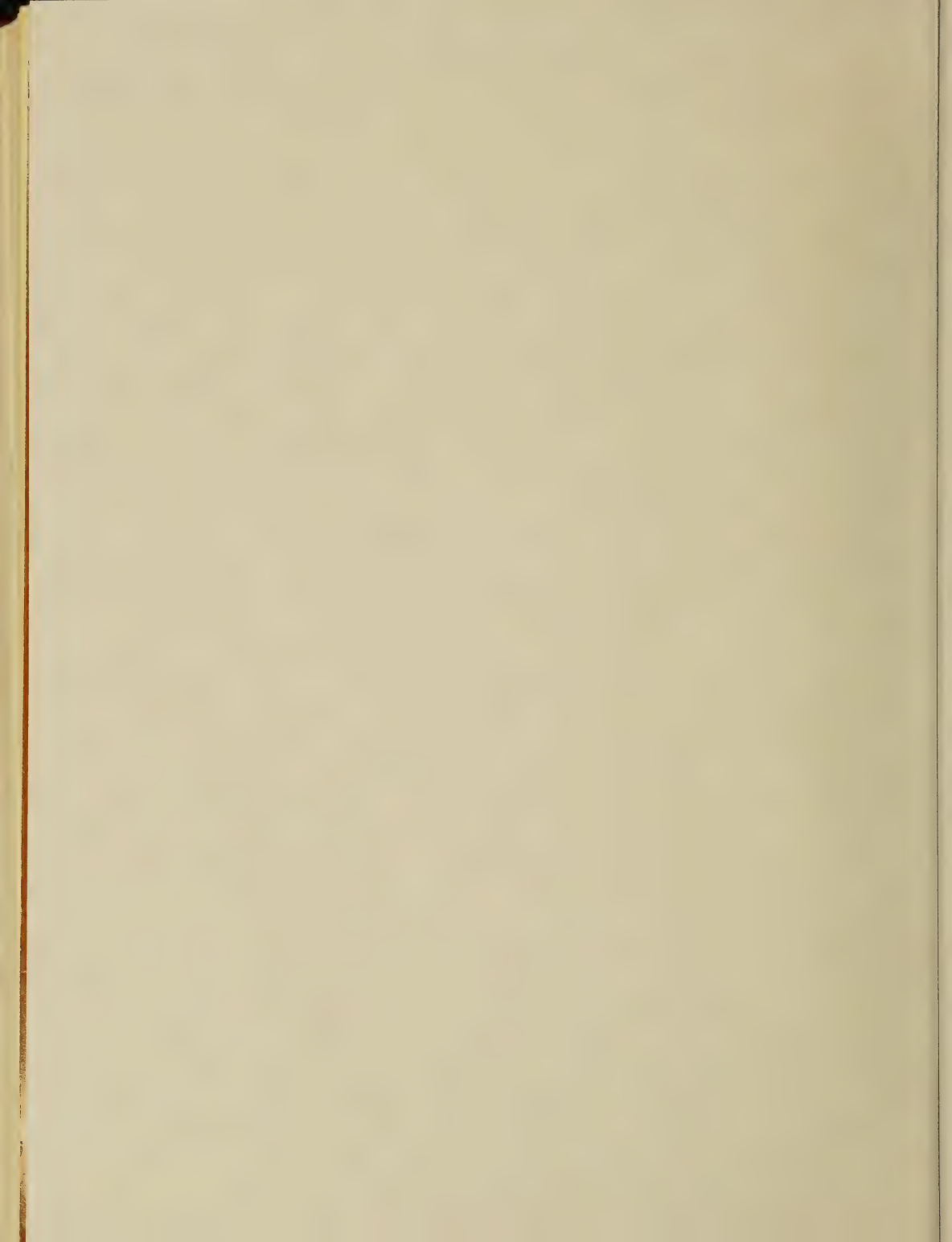


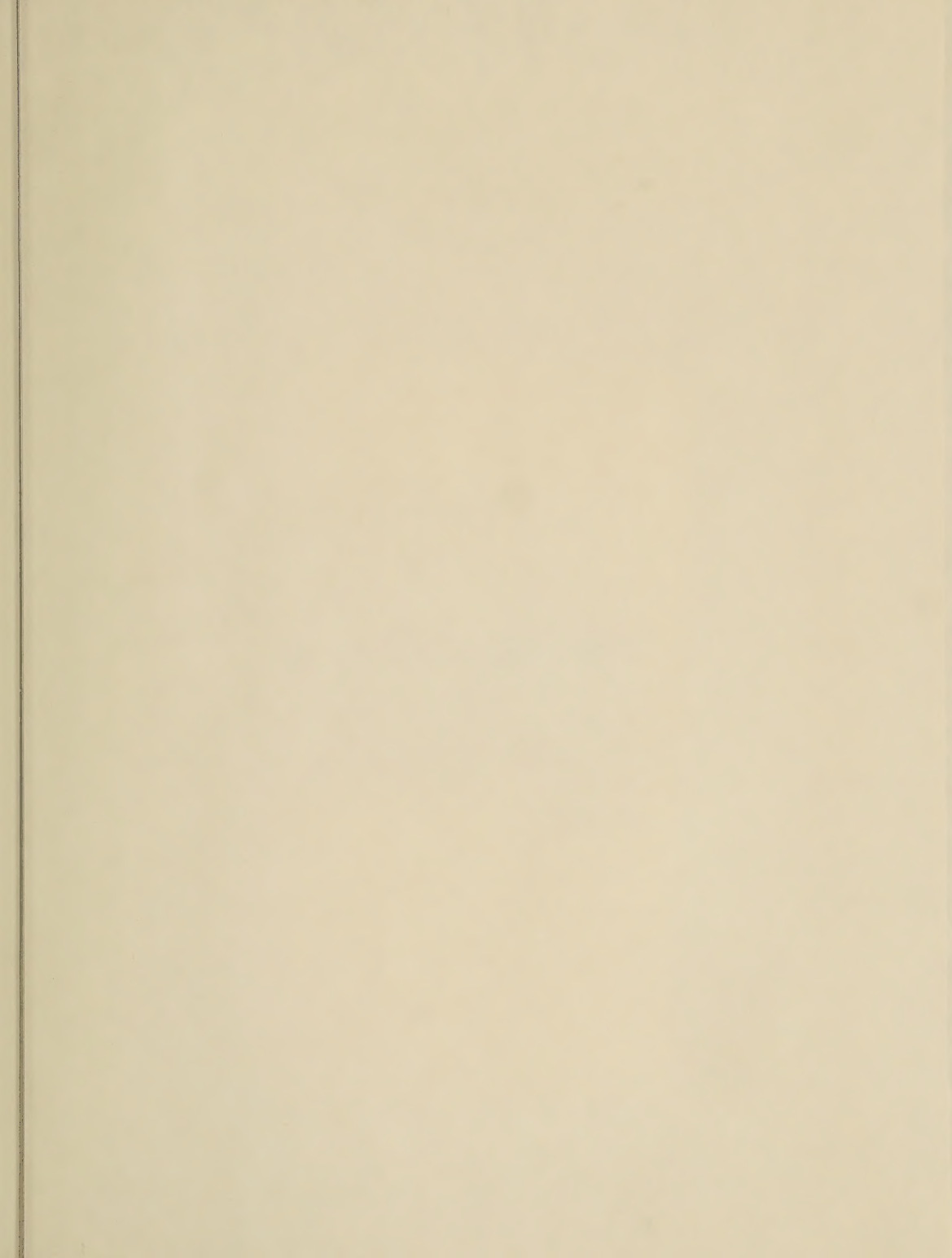


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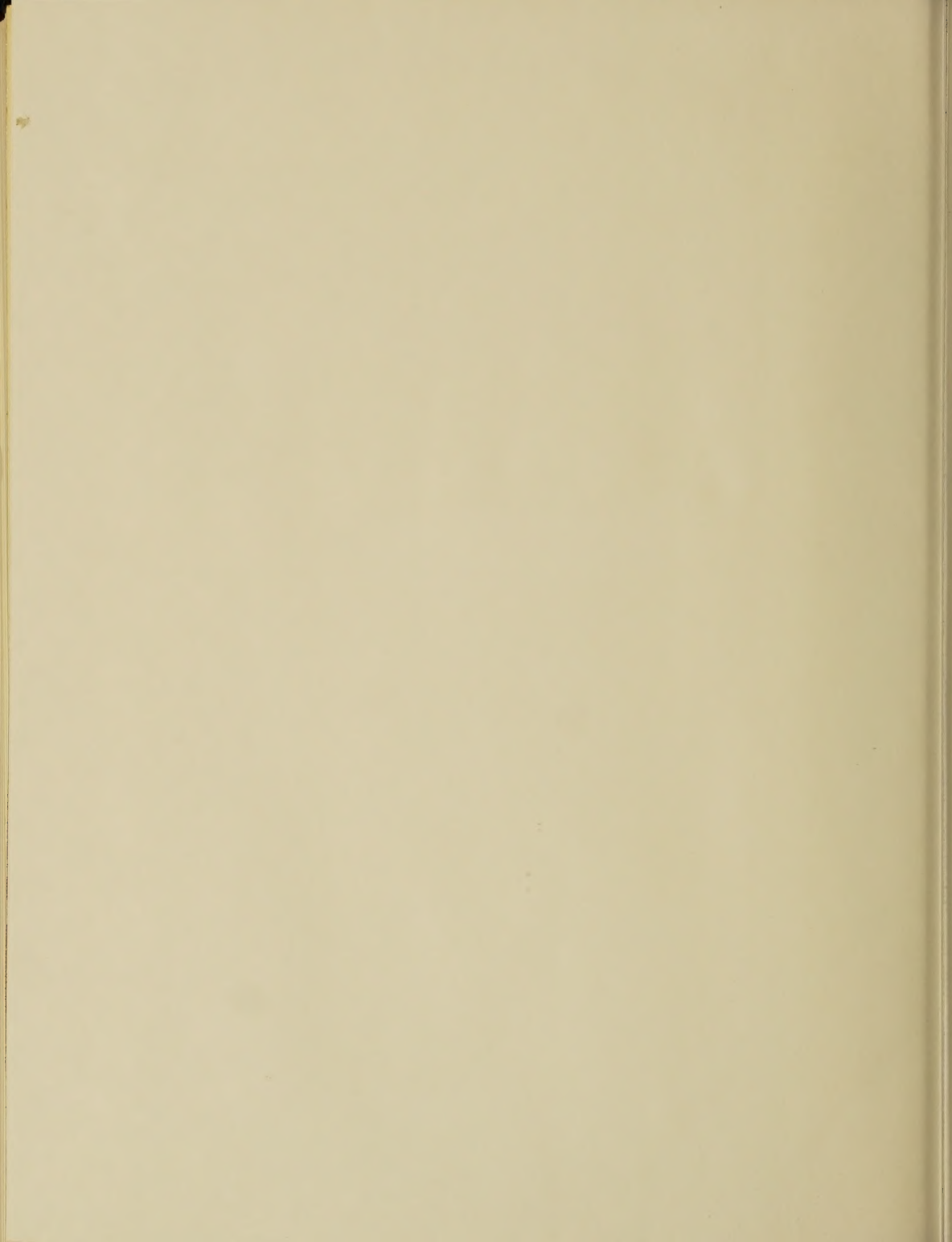












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